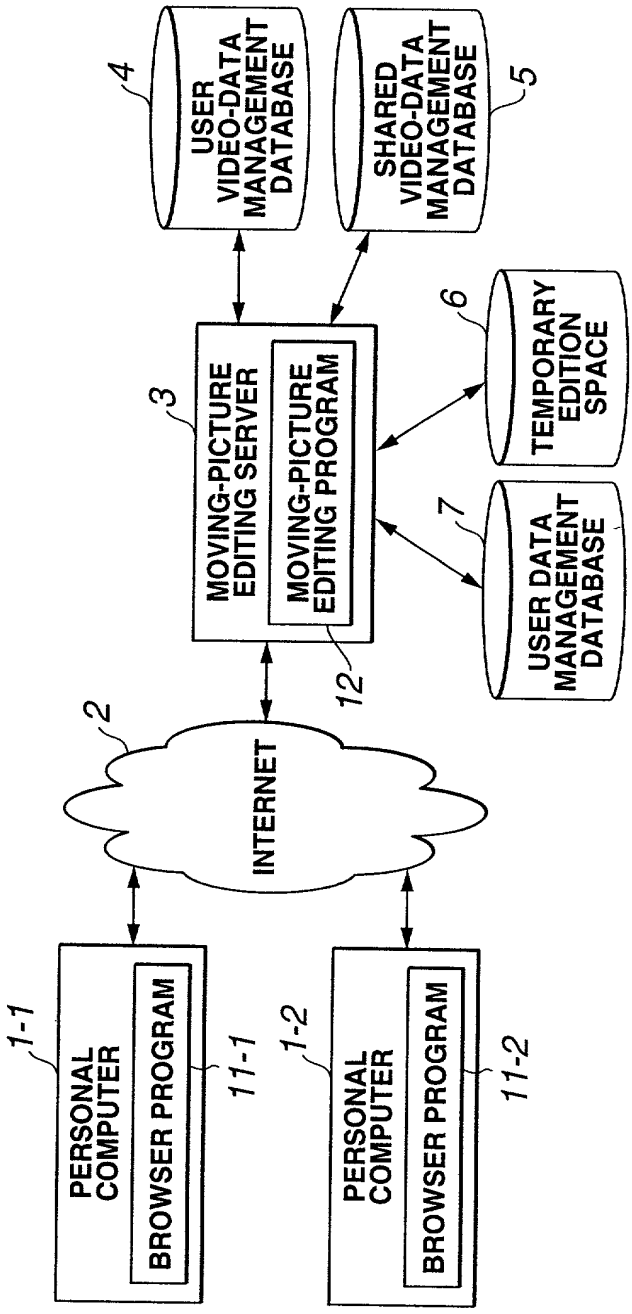
USER VIDEO-DATA MANAGEMENT DATABASE
4
SHARED VIDEO-DATA MANAGEMENT DATABASE
5
MOVING-PICTURE EDITING SERVER
MOVING-PICTURE EDITING PROGRAM
3
12
TEMPORARY EDITION SPACE
6
USER DATA MANAGEMENT DATABASE
7
INTERNET
2
PERSONAL COMPUTER
BROWSER PROGRAM
1-1
11-1
PERSONAL COMPUTER
BROWSER PROGRAM
1-2
11-2

FIG.1

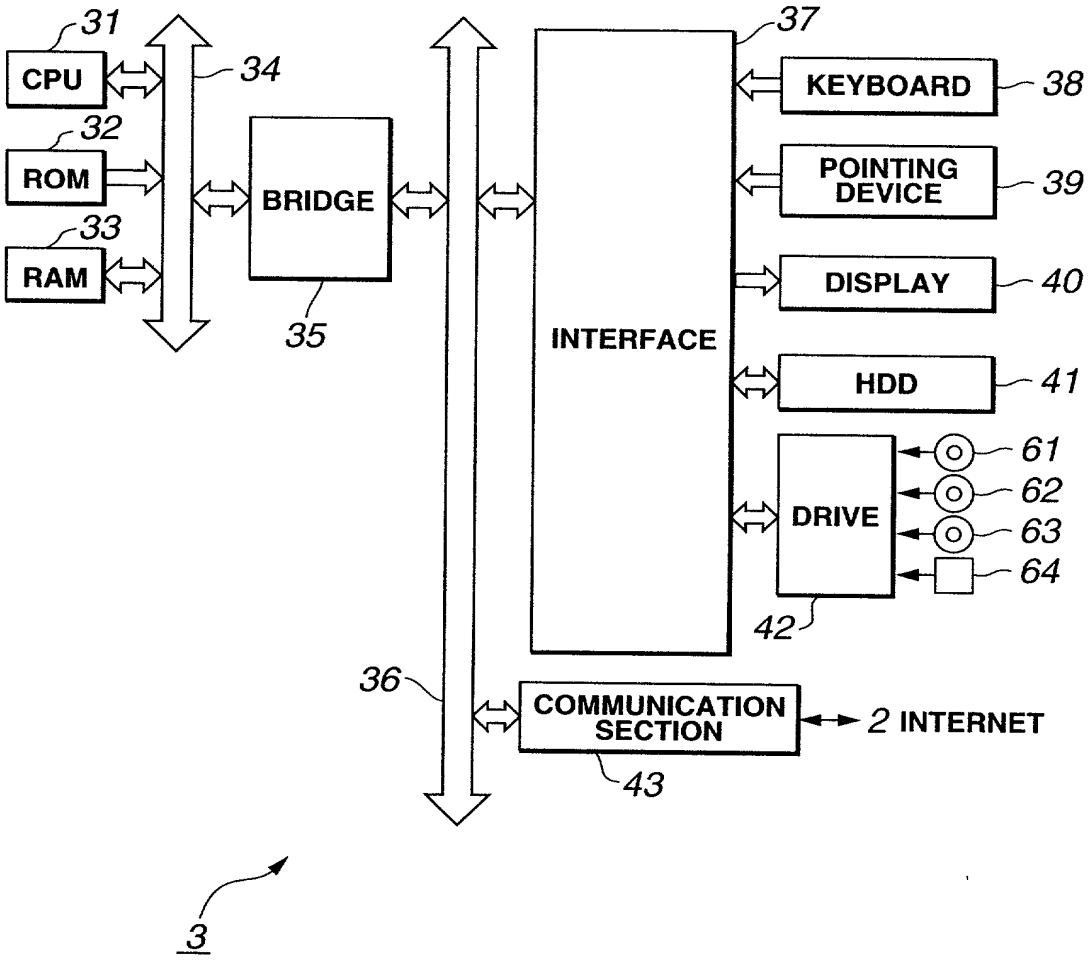
31
CPU
32
ROM
33
RAM
34
BRIDGE
35
36
37
INTERFACE
KEYBOARD
38
POINTING DEVICE
39
DISPLAY
40
HDD
41
DRIVE
61
62
63
64
42
COMMUNICATION SECTION
2 INTERNET
43
3

FIG.2

USER ID	PASSWORD	DIRECTORY DATA	SERVICE CHARGE
aaaaa	* * * * *	user¥aaaaa	2000
bbbbb	* * * * *	user¥bbbbb	1800
ccccc	* * * * *	user¥ccccc	3500
⋮	⋮	⋮	⋮

FIG.3

DATA ID	USER ID	DIRECTORY	FILE NAME	TITLE	CATEGORY	INTRODUCTORY COMMENT	SHARED-DATA FLAG	CHARGE FLAG	CHARGE
xxxxx	aaaaa	user¥aaaaa¥movie1	golf.mov	GOLF	SPORTS	******	0		
yyyyy	aaaaa	user¥aaaaa¥movie1	fish.mov	FISHING	SPORTS	******	1	0	
zzzzz	aaaaa	user¥aaaaa¥movie2	travel.mov	TRAVEL	TRAVEL	******	1	1	200
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮

FIG.4

10/053,453

09/02/2002 04:46:39

DATA ID	USER ID	CHARGE FLAG
yyyyy	aaaaa	0
zzzzz	bbbbb	1
hhhhh	ccccc	1
⋮	⋮	⋮

FIG.5

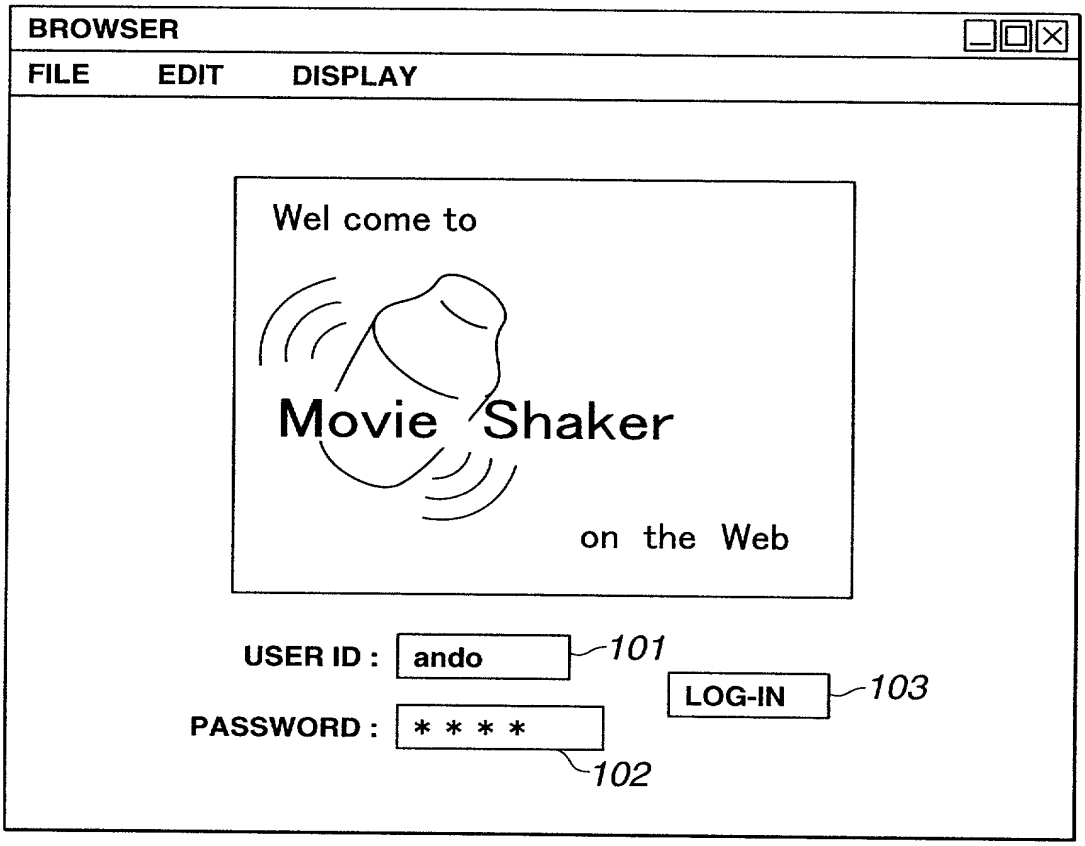
BROWSER
FILE
EDIT
DISPLAY
Wel come to
Movie Shaker
on the Web
USER ID :
ando
101
LOG-IN
103
PASSWORD :
* * * *
102

FIG.6

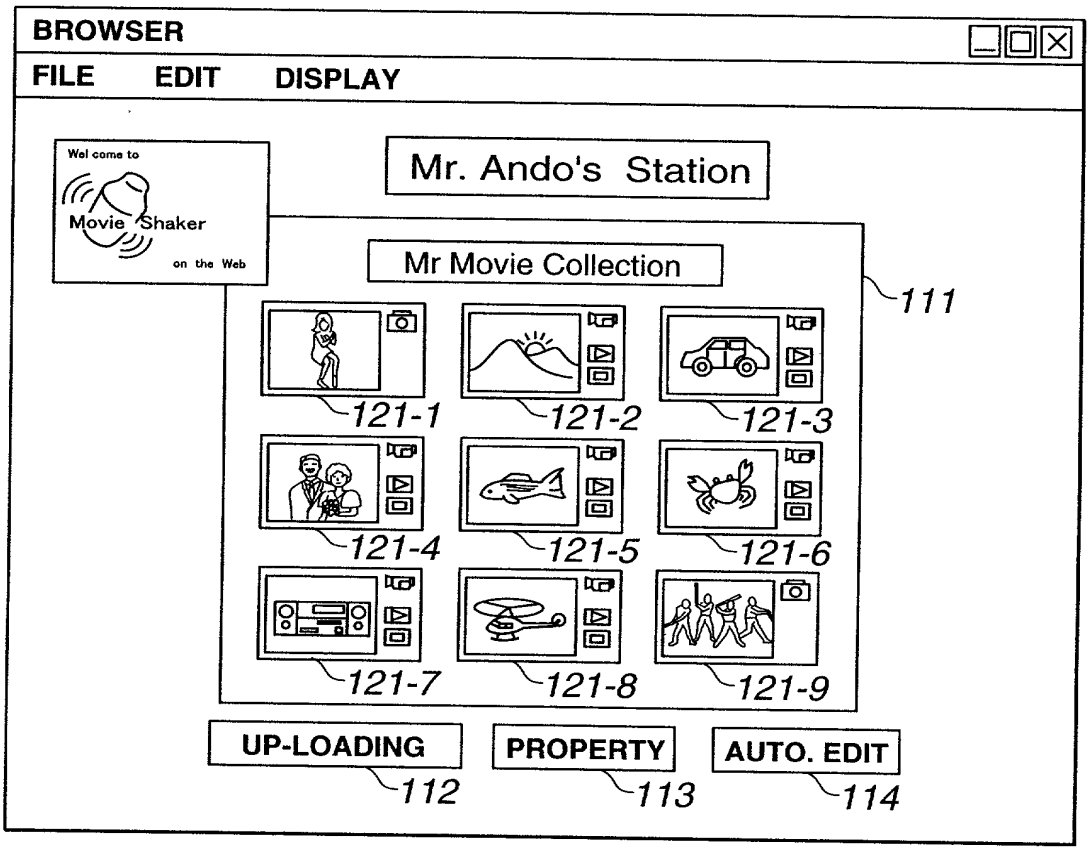
BROWSER
FILE
EDIT
DISPLAY
Wel come to
Movie Shaker
on the Web
Mr. Ando's Station
Mr Movie Collection
111
121-1
121-2
121-3
121-4
121-5
121-6
121-7
121-8
121-9
UP-LOADING
112
PROPERTY
113
AUTO. EDIT
114

FIG.7

10/019345

09/19/2002 15:55:55

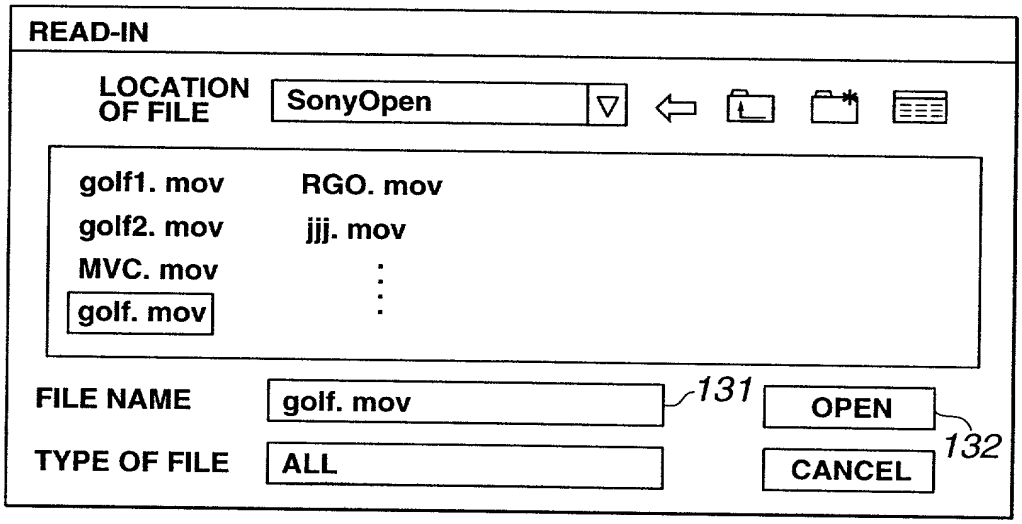

FIG.8

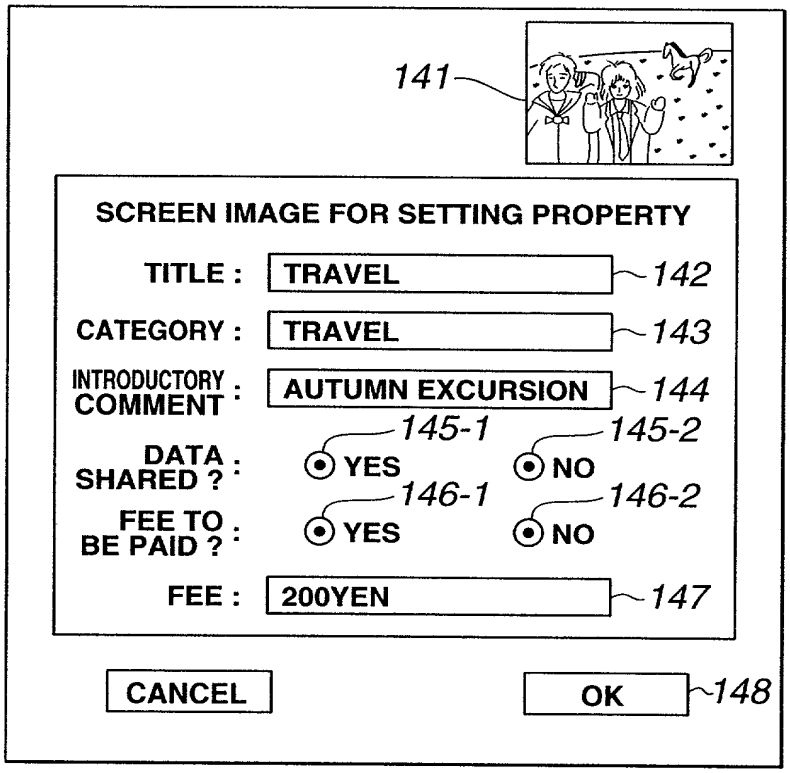
141
SCREEN IMAGE FOR SETTING PROPERTY
TITLE :
TRAVEL
142
CATEGORY :
TRAVEL
143
INTRODUCTORY COMMENT :
AUTUMN EXCURSION
144
145-1
145-2
DATA SHARED ? :
YES
NO
146-1
146-2
FEE TO BE PAID ? :
YES
NO
FEE :
200YEN
147
CANCEL
OK
148

FIG.9

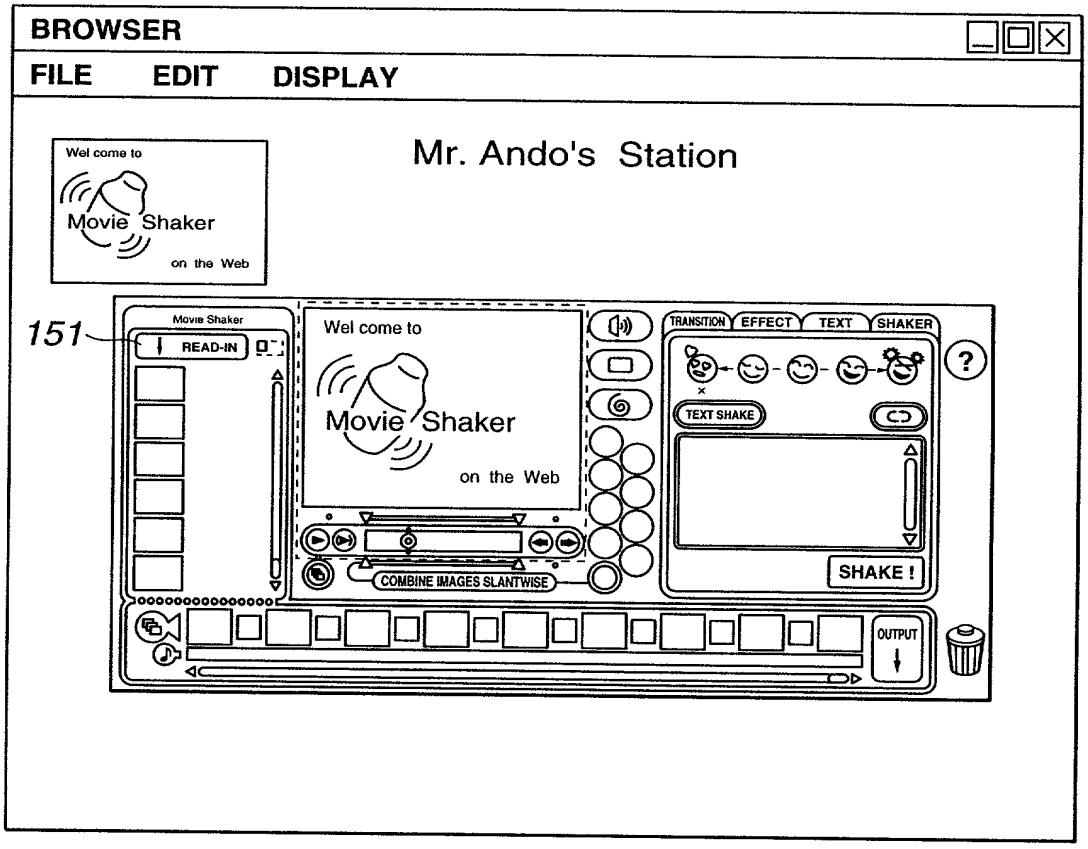
BROWSER
FILE
EDIT
DISPLAY
Wel come to
Movie Shaker
on the Web
Mr. Ando's Station
151
Movie Shaker
READ-IN
Wel come to
Movie Shaker
on the Web
TRANSITION
EFFECT
TEXT
SHAKER
TEXT SHAKE
SHAKE !
COMBINE IMAGES SLANTWISE
OUTPUT

FIG.10

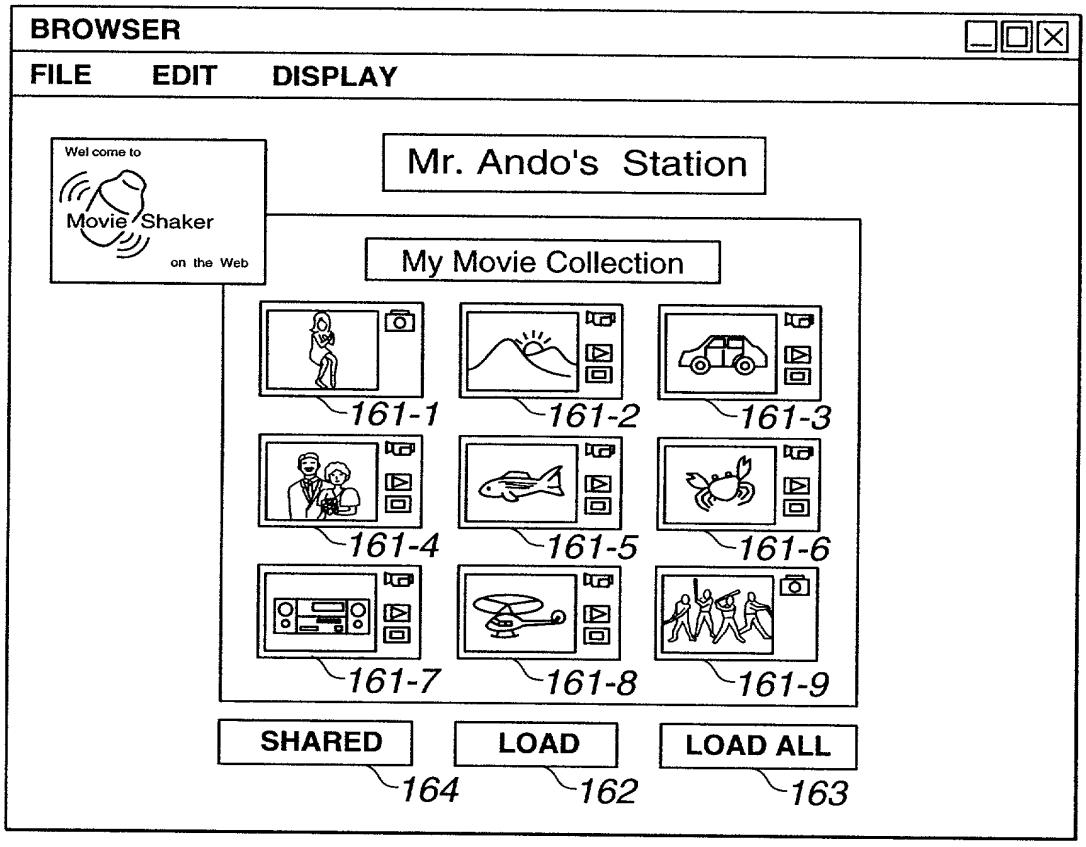
BROWSER
FILE
EDIT
DISPLAY
Wel come to
Movie Shaker
on the Web
Mr. Ando's Station
My Movie Collection
161-1
161-2
161-3
161-4
161-5
161-6
161-7
161-8
161-9
SHARED
LOAD
LOAD ALL
164
162
163

FIG.11

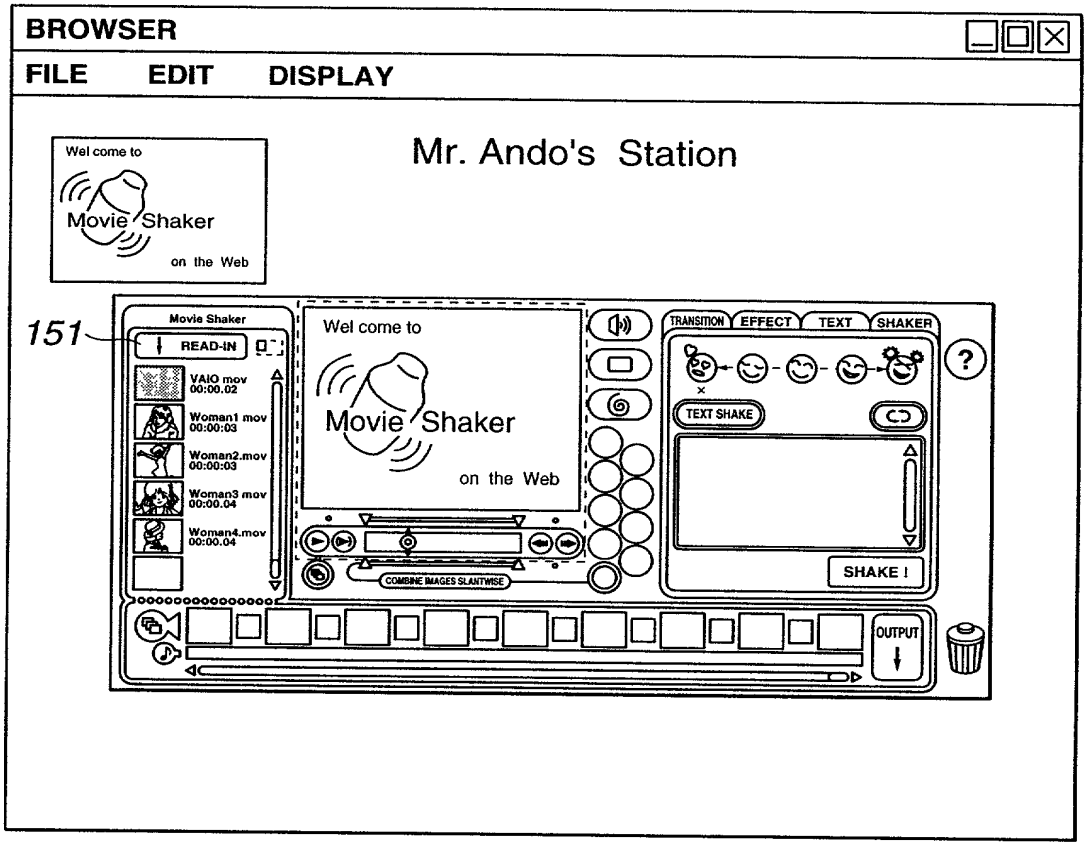
BROWSER
FILE
EDIT
DISPLAY
Wel come to
Movie Shaker
on the Web
Mr. Ando's Station
151
Movie Shaker
READ-IN
VAIO mov 00:00.02
Woman1 mov 00:00:03
Woman2.mov 00:00:03
Woman3 mov 00:00.04
Woman4.mov 00:00.04
Wel come to
Movie Shaker
on the Web
COMBINE IMAGES SLANTWISE
TRANSITION
EFFECT
TEXT
SHAKER
TEXT SHAKE
SHAKE !
OUTPUT

FIG.12

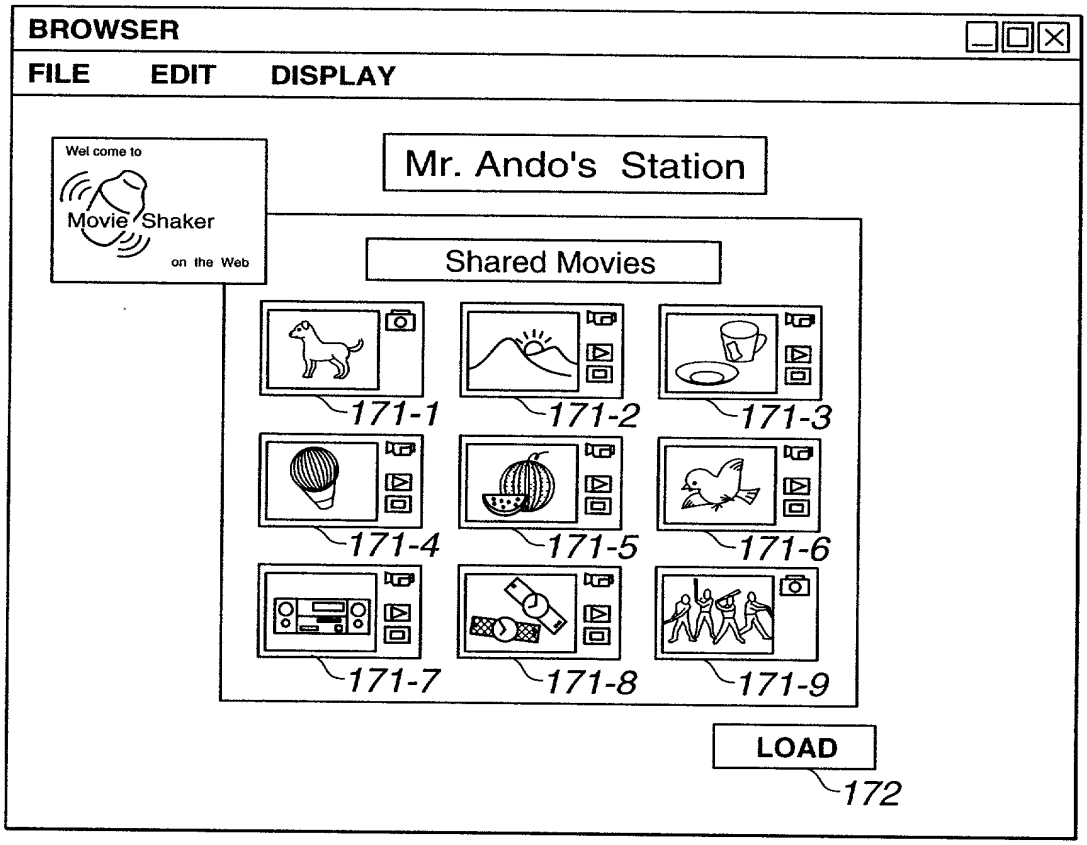
BROWSER
FILE
EDIT
DISPLAY
Wel come to
Movie Shaker
on the Web
Mr. Ando's Station
Shared Movies
171-1
171-2
171-3
171-4
171-5
171-6
171-7
171-8
171-9
LOAD
172

FIG.13

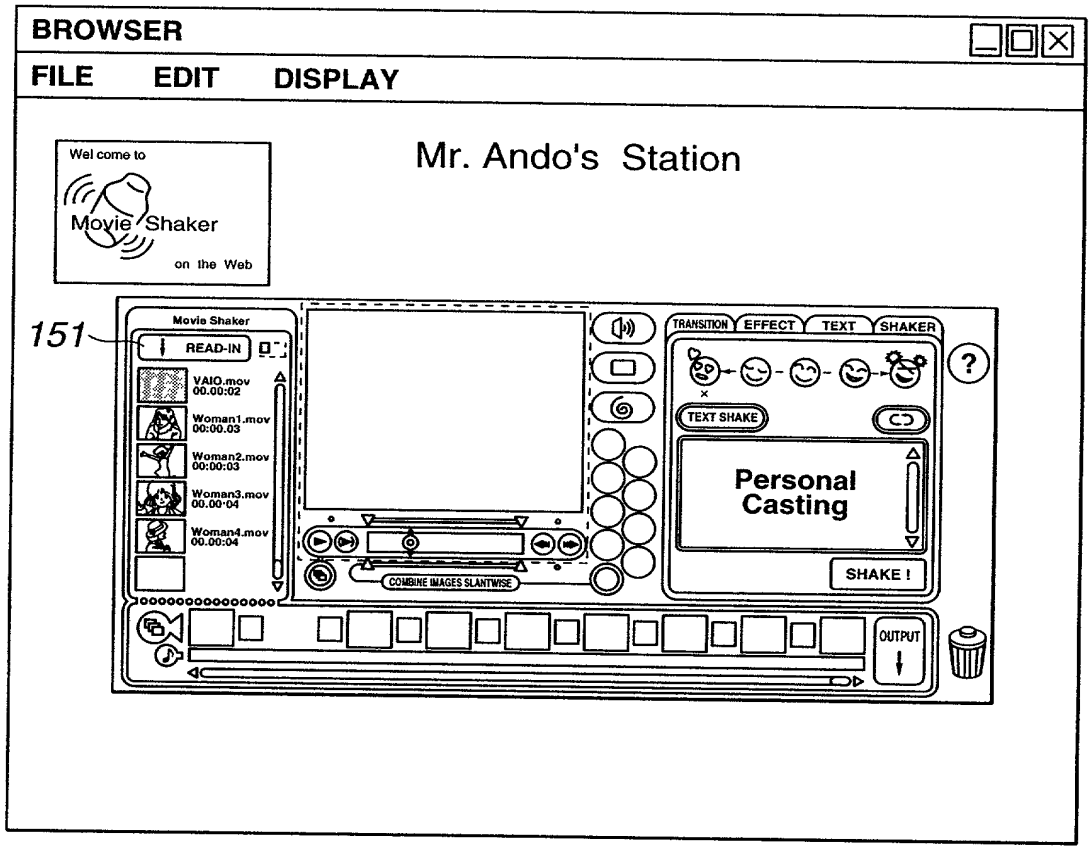
BROWSER
FILE
EDIT
DISPLAY
Wel come to
Movie Shaker
on the Web
Mr. Ando's Station
151
Movie Shaker
READ-IN
VAIO.mov
00.00:02
Woman1.mov
00:00.03
Woman2.mov
00:00:03
Woman3.mov
00.00:04
Woman4.mov
00.00:04
COMBINE IMAGES SLANTWISE
TRANSITION
EFFECT
TEXT
SHAKER
TEXT SHAKE
Personal
Casting
SHAKE !
OUTPUT

FIG.14

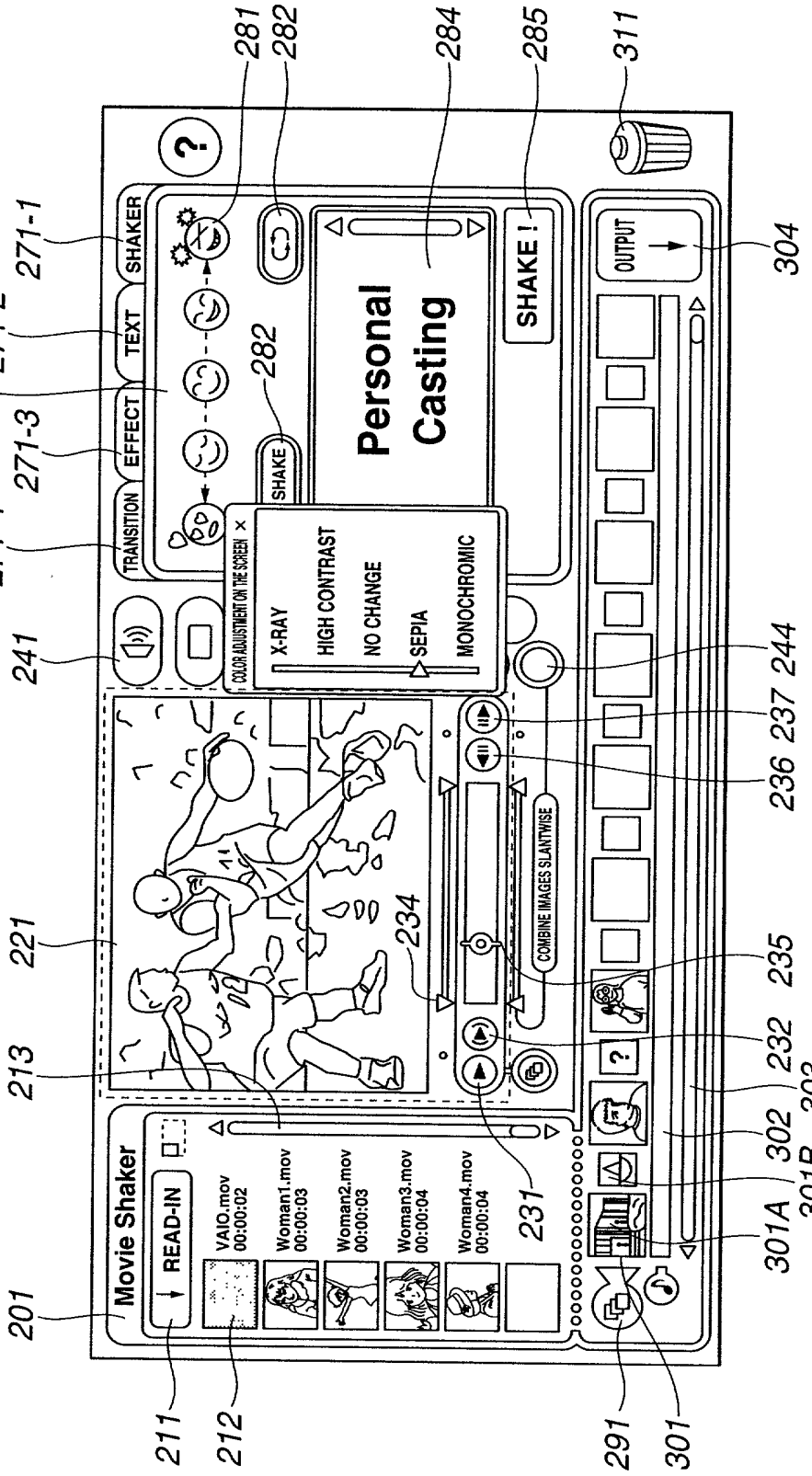
Movie Shaker
READ-IN
VAIO.mov 00:00:02
Woman1.mov 00:00:03
Woman2.mov 00:00:03
Woman3.mov 00:00:04
Woman4.mov 00:00:04
SHAKER
TEXT
EFFECT
TRANSITION
SHAKE
Personal Casting
SHAKE !
OUTPUT
COLOR ADJUSTMENT ON THE SCREEN
X-RAY
HIGH CONTRAST
NO CHANGE
SEPIA
MONOCHROMIC
COMBINE IMAGES SLANTWISE
201
211
212
213
221
231
234
235
236
237
241
244
261
271-1
271-2
271-3
271-4
281
282
284
285
291
301
301A
301B
302
303
304
311

FIG.15

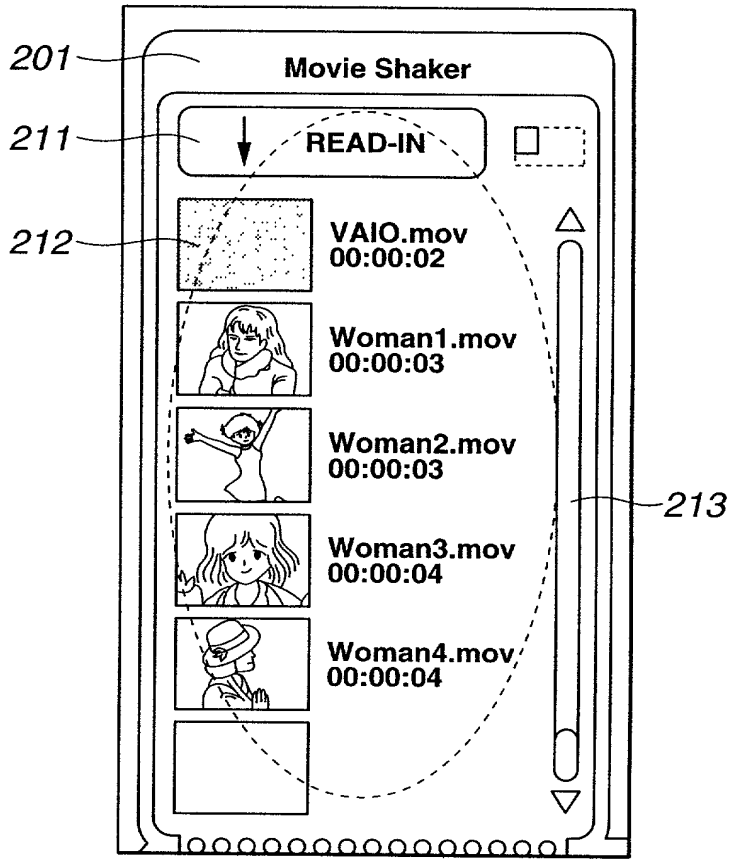
201
Movie Shaker
211
READ-IN
212
VAIO.mov
00:00:02
Woman1.mov
00:00:03
Woman2.mov
00:00:03
Woman3.mov
00:00:04
Woman4.mov
00:00:04
213

FIG.16

09/30/2004 04:55:37

MOVING PICTURE	.MOV .AVI
STILL PICTURE	.BMP .GIF .JPG .PNG .PCT
MUSIC	.WAV .AIF

FIG.17

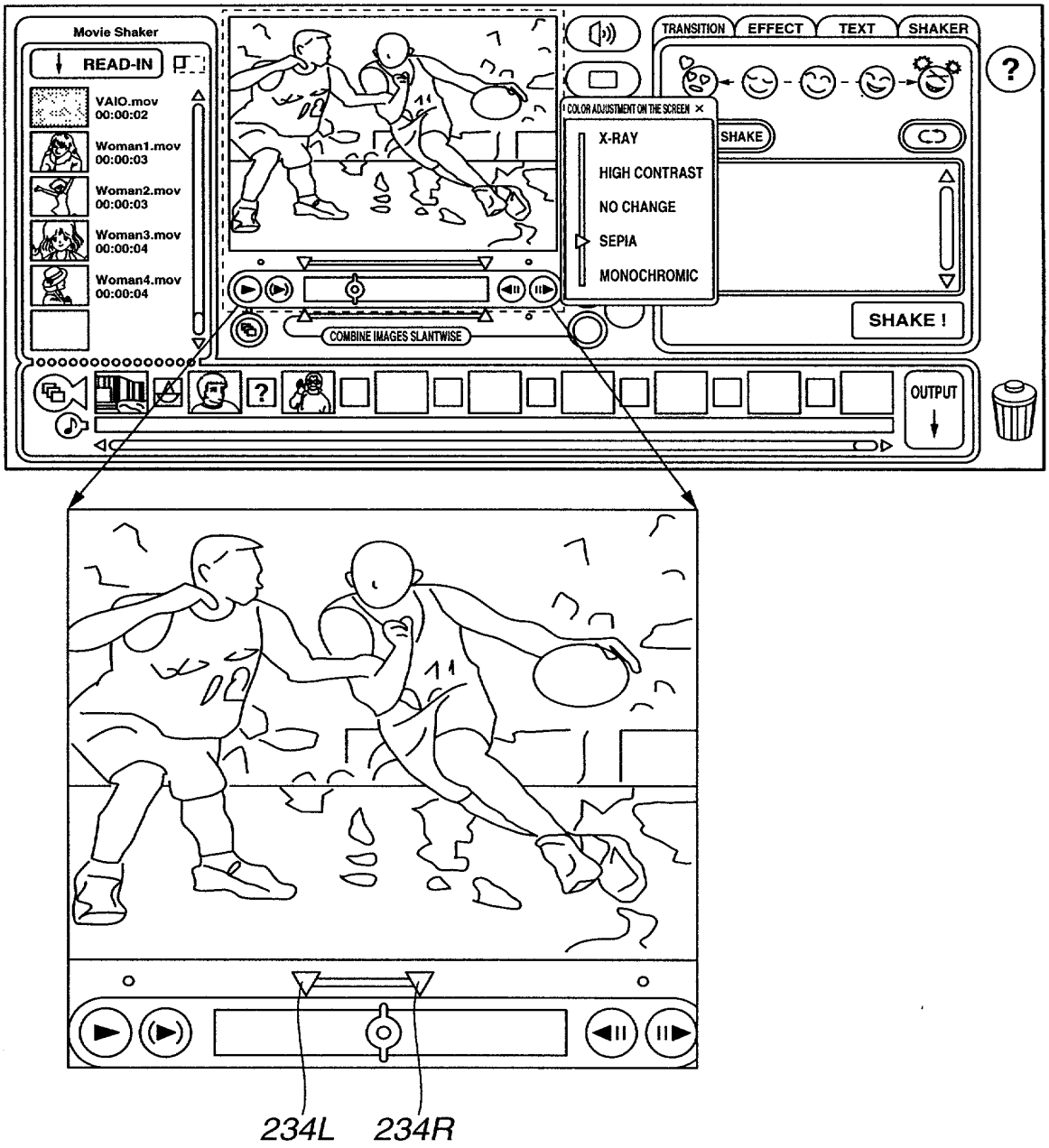
Movie Shaker
READ-IN
VAIO.mov
00:00:02
Woman1.mov
00:00:03
Woman2.mov
00:00:03
Woman3.mov
00:00:04
Woman4.mov
00:00:04
COMBINE IMAGES SLANTWISE
TRANSITION
EFFECT
TEXT
SHAKER
COLOR ADJUSTMENT ON THE SCREEN
X-RAY
HIGH CONTRAST
NO CHANGE
SEPIA
MONOCHROMIC
SHAKE
SHAKE !
OUTPUT
234L
234R

FIG.18

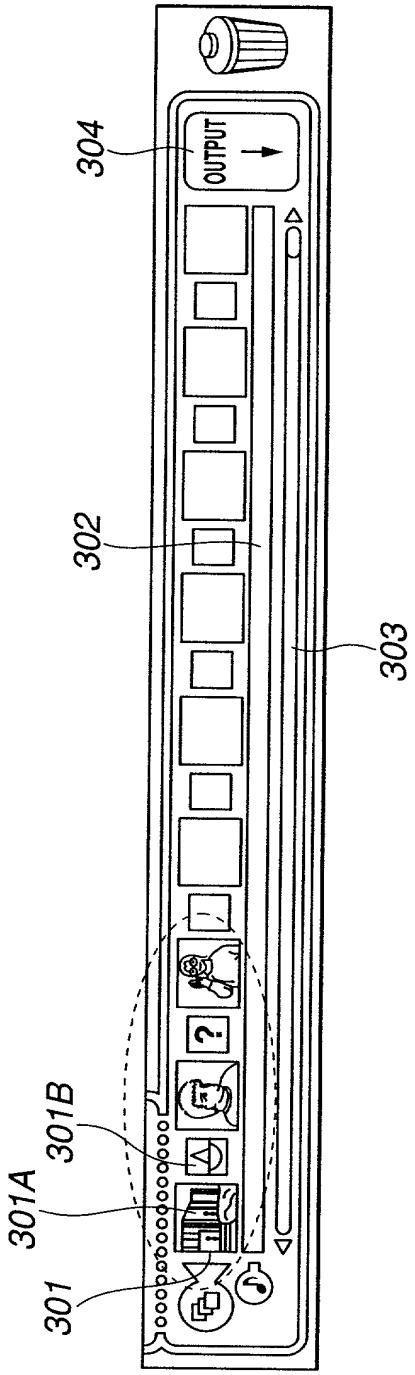

FIG.19

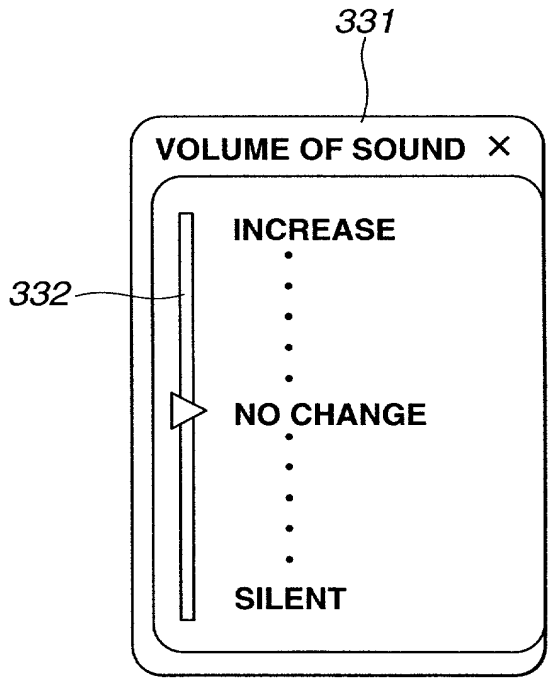
331
VOLUME OF SOUND ×
INCREASE
332
NO CHANGE
SILENT

FIG.20

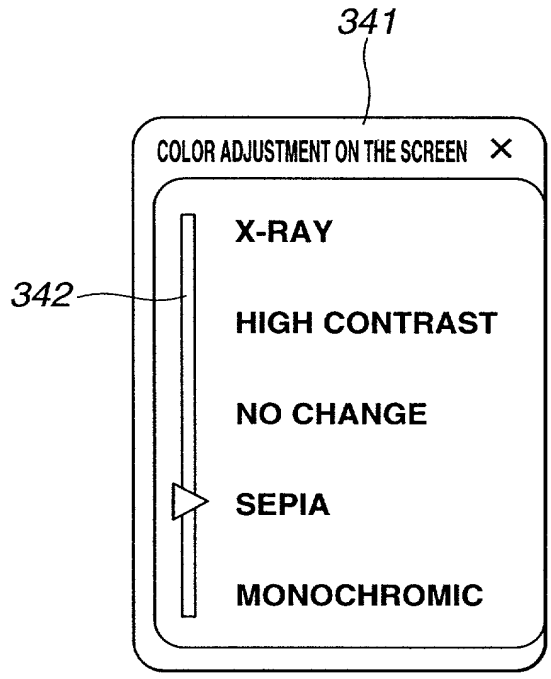
341
COLOR ADJUSTMENT ON THE SCREEN ×
X-RAY
342
HIGH CONTRAST
NO CHANGE
SEPIA
MONOCHROMIC

FIG.21

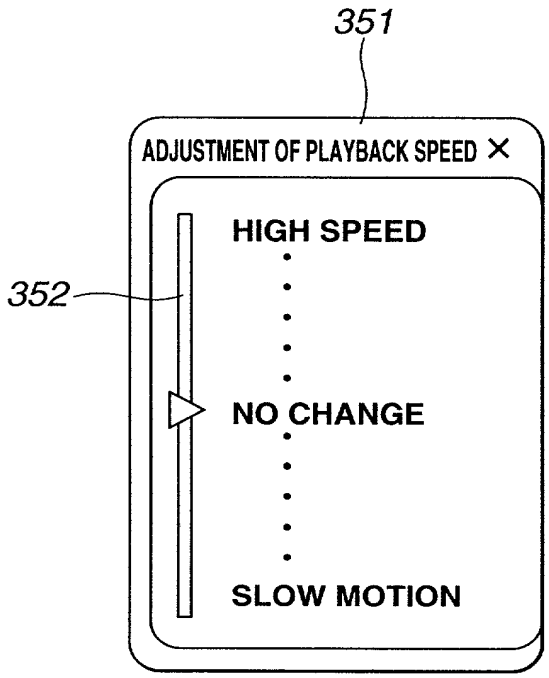
351
ADJUSTMENT OF PLAYBACK SPEED ×
352
HIGH SPEED
NO CHANGE
SLOW MOTION

FIG.22

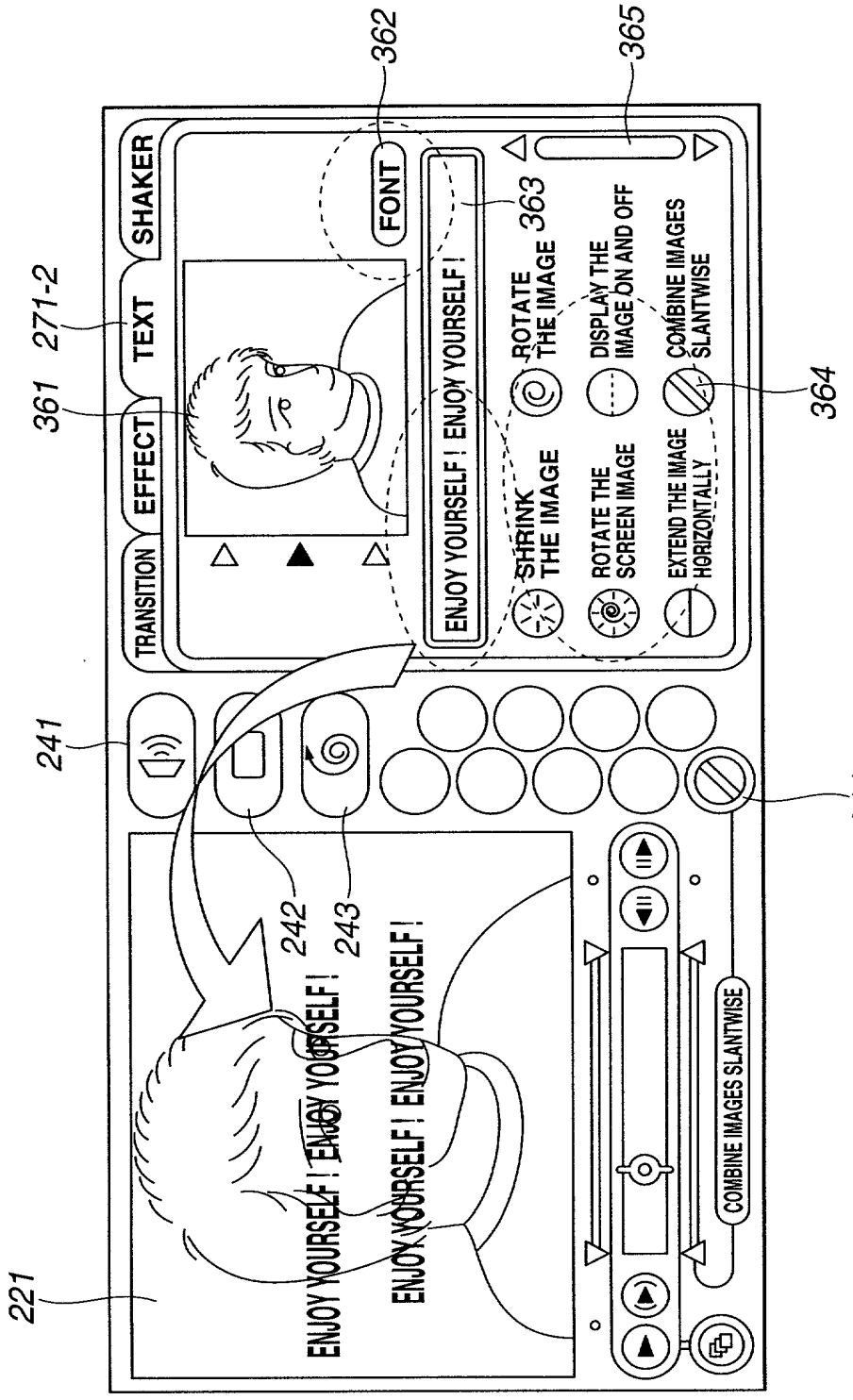
TRANSITION
EFFECT
TEXT
SHAKER
FONT
ENJOY YOURSELF ! ENJOY YOURSELF !
SHRINK THE IMAGE
ROTATE THE IMAGE
ROTATE THE SCREEN IMAGE
DISPLAY THE IMAGE ON AND OFF
EXTEND THE IMAGE HORIZONTALLY
COMBINE IMAGES SLANTWISE
COMBINE IMAGES SLANTWISE
ENJOY YOURSELF ! ENJOY YOURSELF !
221
241
242
243
244
271-2
361
362
363
364
365

FIG.23

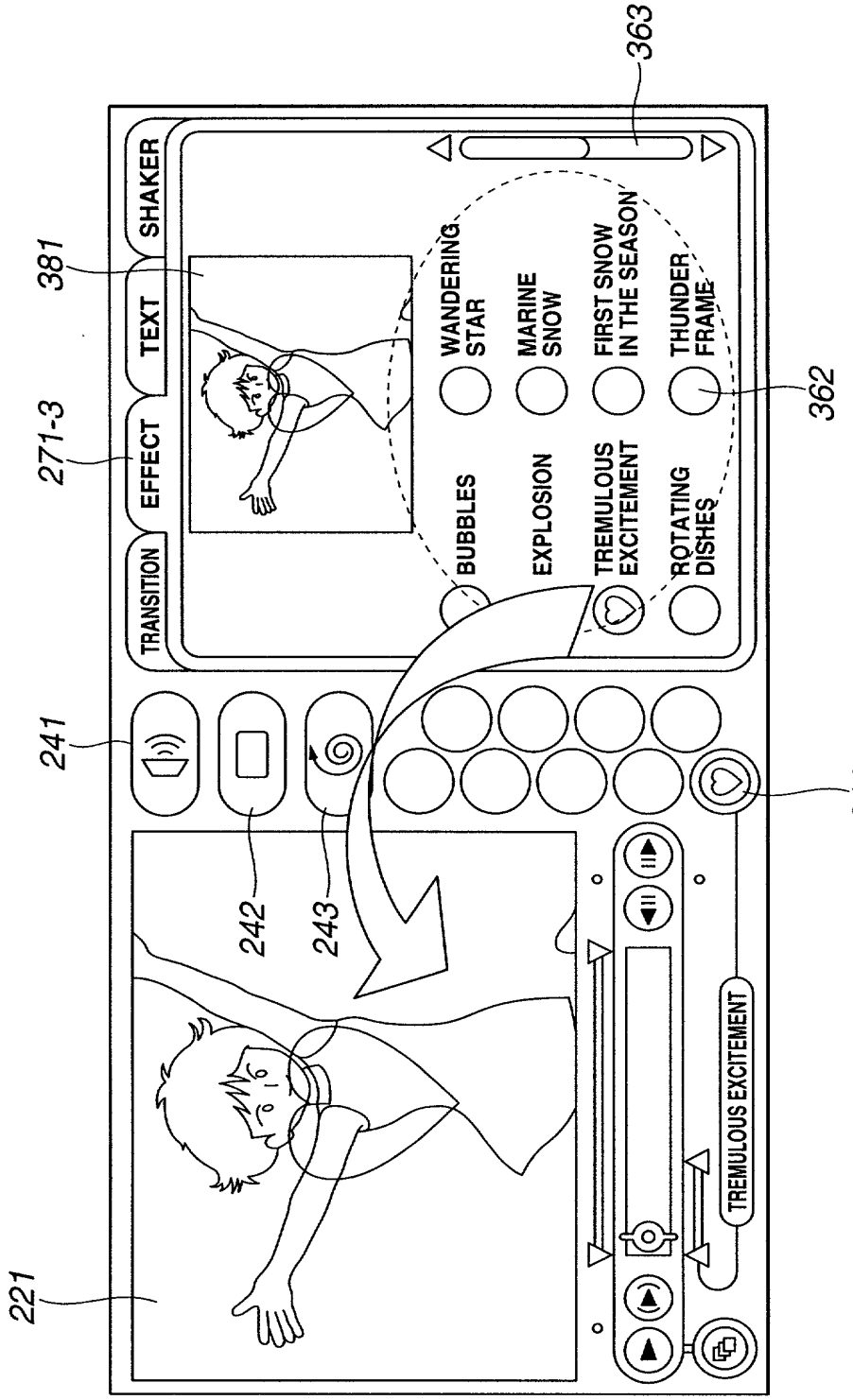
363
381
271-3
362
241
242
243
244
221
TRANSITION
EFFECT
TEXT
SHAKER
BUBBLES
EXPLOSION
TREMULOUS EXCITEMENT
ROTATING DISHES
WANDERING STAR
MARINE SNOW
FIRST SNOW IN THE SEASON
THUNDER FRAME
TREMULOUS EXCITEMENT

FIG.24

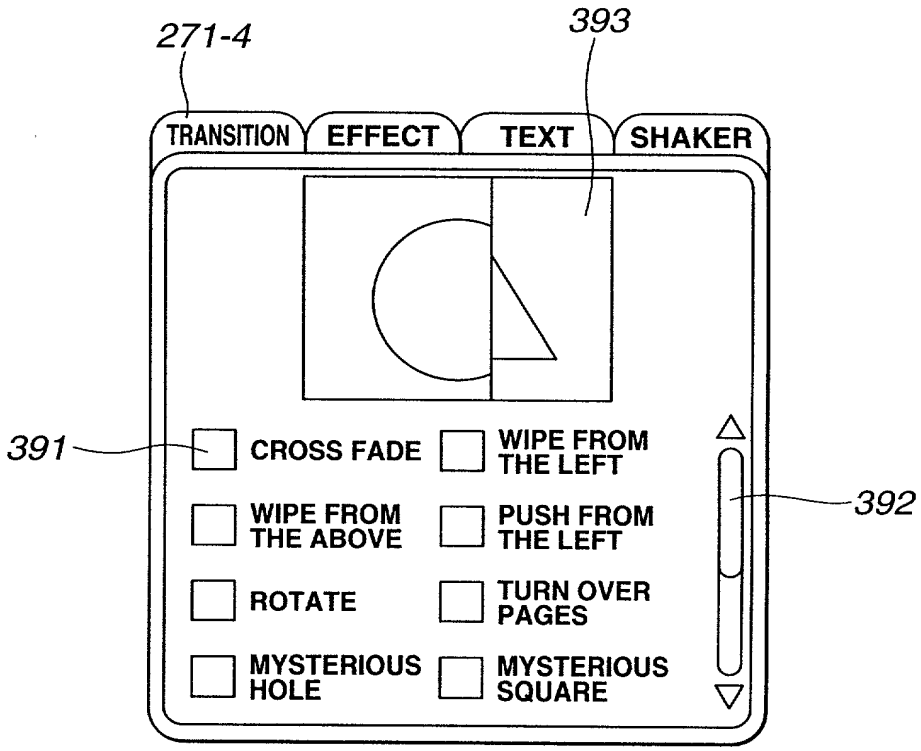
271-4
393
TRANSITION
EFFECT
TEXT
SHAKER
391
CROSS FADE
WIPE FROM THE LEFT
WIPE FROM THE ABOVE
PUSH FROM THE LEFT
ROTATE
TURN OVER PAGES
MYSTERIOUS HOLE
MYSTERIOUS SQUARE
392

FIG.25

SUBSTITUTE SHEET

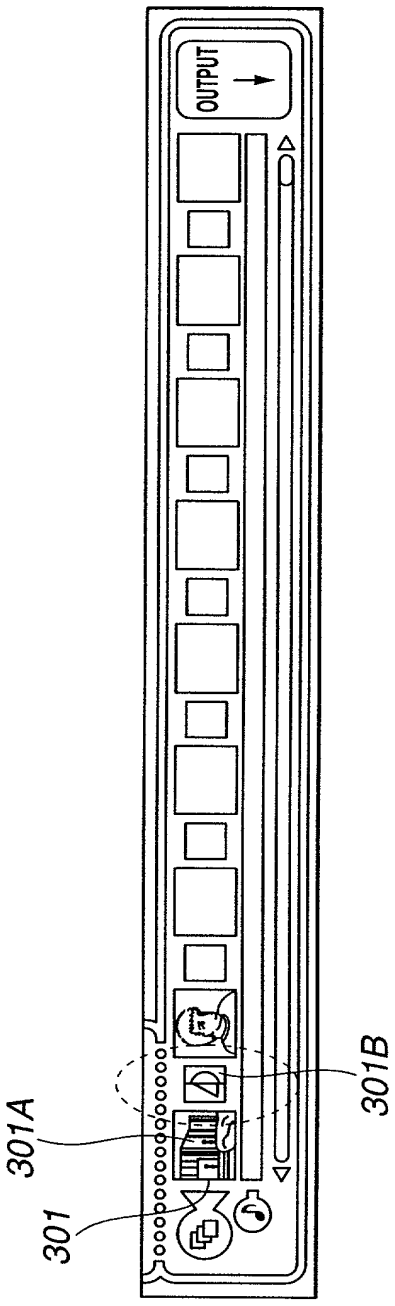

FIG.26

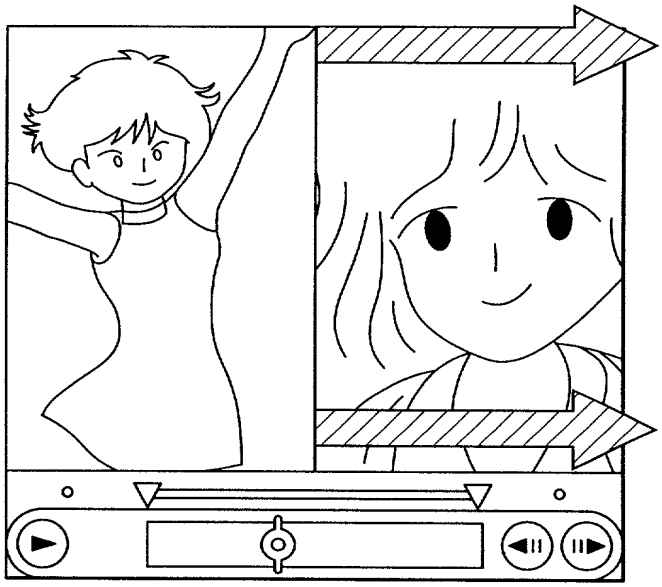

FIG.27

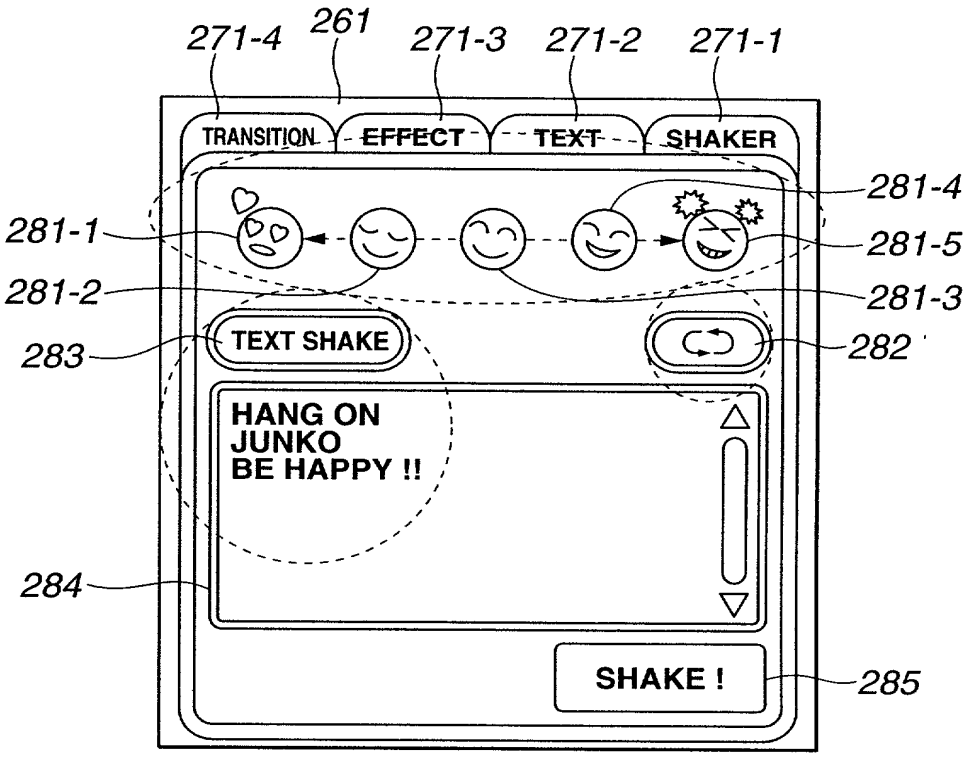
271-4
261
271-3
271-2
271-1
TRANSITION
EFFECT
TEXT
SHAKER
281-1
281-2
281-3
281-4
281-5
TEXT SHAKE
283
282
HANG ON
JUNKO
BE HAPPY !!
284
SHAKE !
285

FIG.28

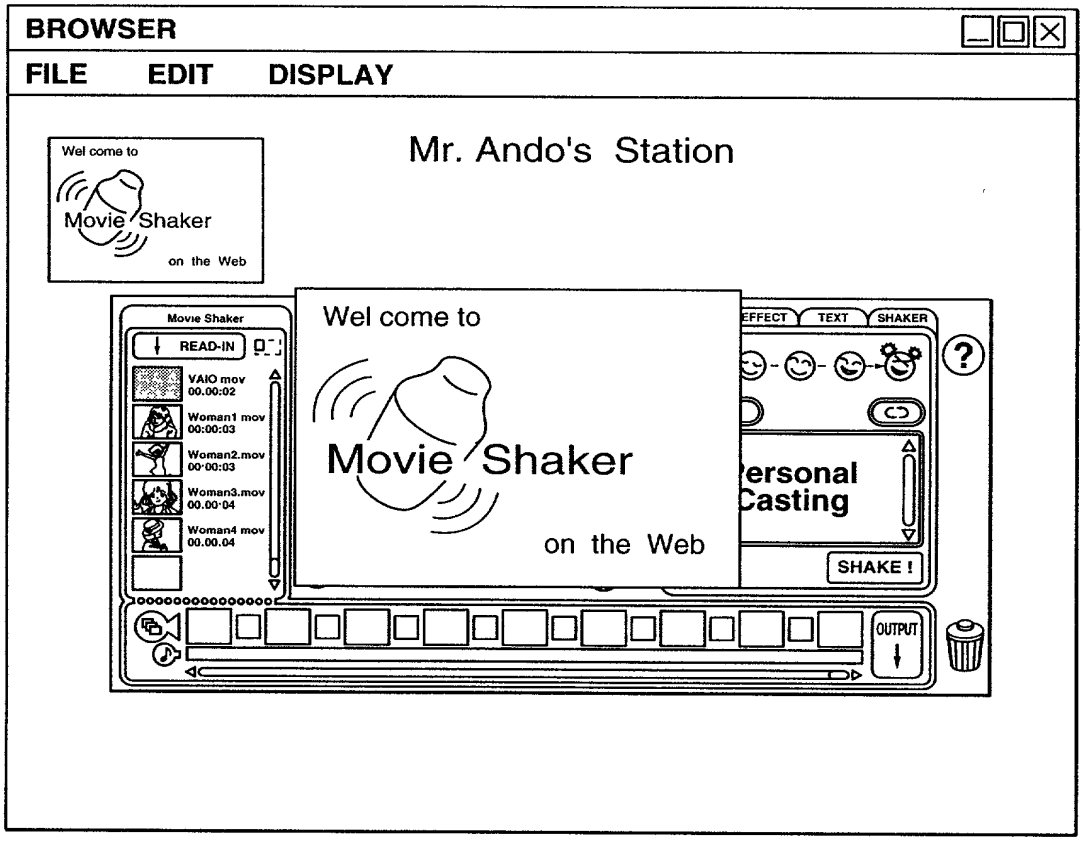
BROWSER
FILE
EDIT
DISPLAY
Wel come to
Movie Shaker
on the Web
Mr. Ando's Station
Movie Shaker
READ-IN
VAIO mov
00.00:02
Woman1 mov
00:00:03
Woman2.mov
00:00:03
Woman3.mov
00.00:04
Woman4 mov
00.00.04
Wel come to
Movie Shaker
on the Web
EFFECT
TEXT
SHAKER
ersonal
Casting
SHAKE !
OUTPUT

FIG.29

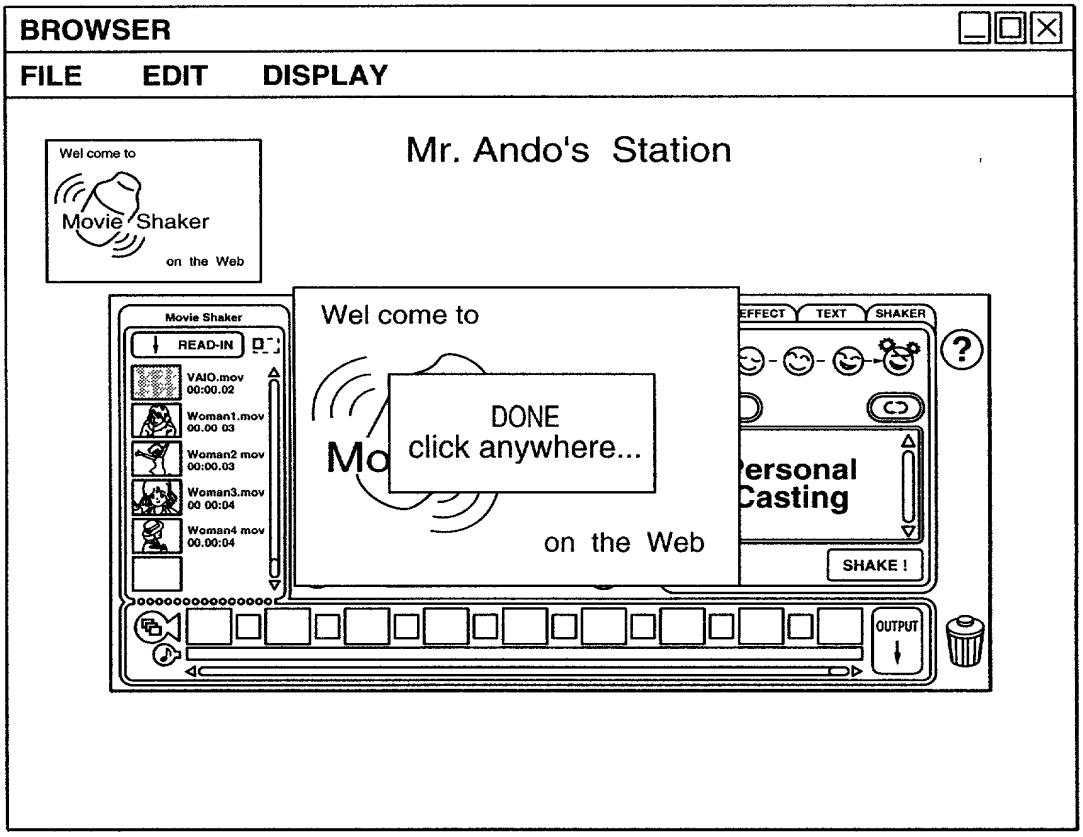
BROWSER
FILE
EDIT
DISPLAY
Wel come to
Movie Shaker
on the Web
Mr. Ando's Station
Movie Shaker
READ-IN
VAIO.mov
00:00.02
Woman1.mov
00.00 03
Woman2 mov
00:00.03
Woman3.mov
00 00:04
Woman4 mov
00.00:04
Wel come to
DONE
click anywhere...
on the Web
EFFECT
TEXT
SHAKER
ersonal
Casting
SHAKE !
OUTPUT

FIG.30

5050350 "0450450"

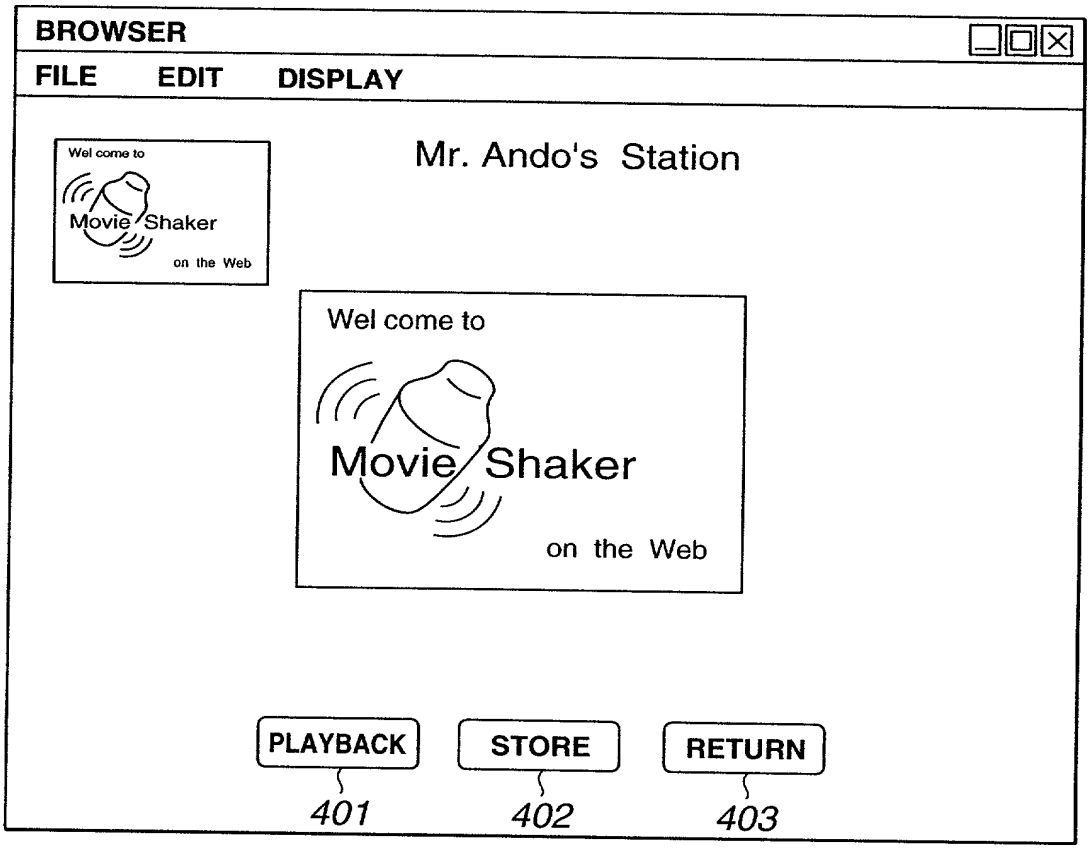

FIG.31

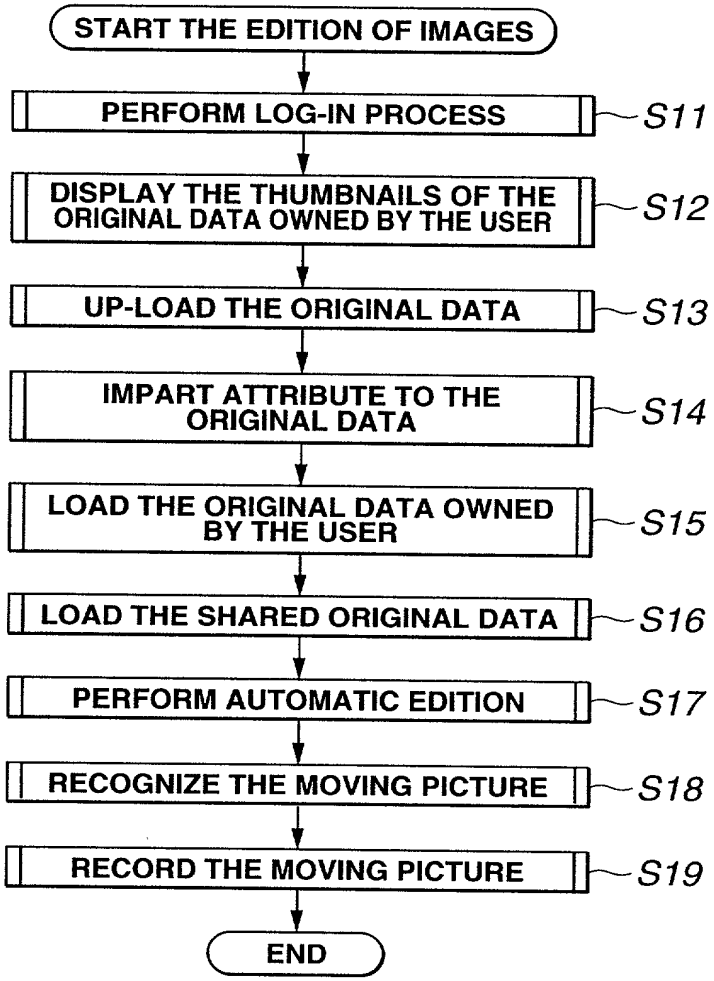
START THE EDITION OF IMAGES
PERFORM LOG-IN PROCESS
S11
DISPLAY THE THUMBNAILS OF THE ORIGINAL DATA OWNED BY THE USER
S12
UP-LOAD THE ORIGINAL DATA
S13
IMPART ATTRIBUTE TO THE ORIGINAL DATA
S14
LOAD THE ORIGINAL DATA OWNED BY THE USER
S15
LOAD THE SHARED ORIGINAL DATA
S16
PERFORM AUTOMATIC EDITION
S17
RECOGNIZE THE MOVING PICTURE
S18
RECORD THE MOVING PICTURE
S19
END

FIG.32

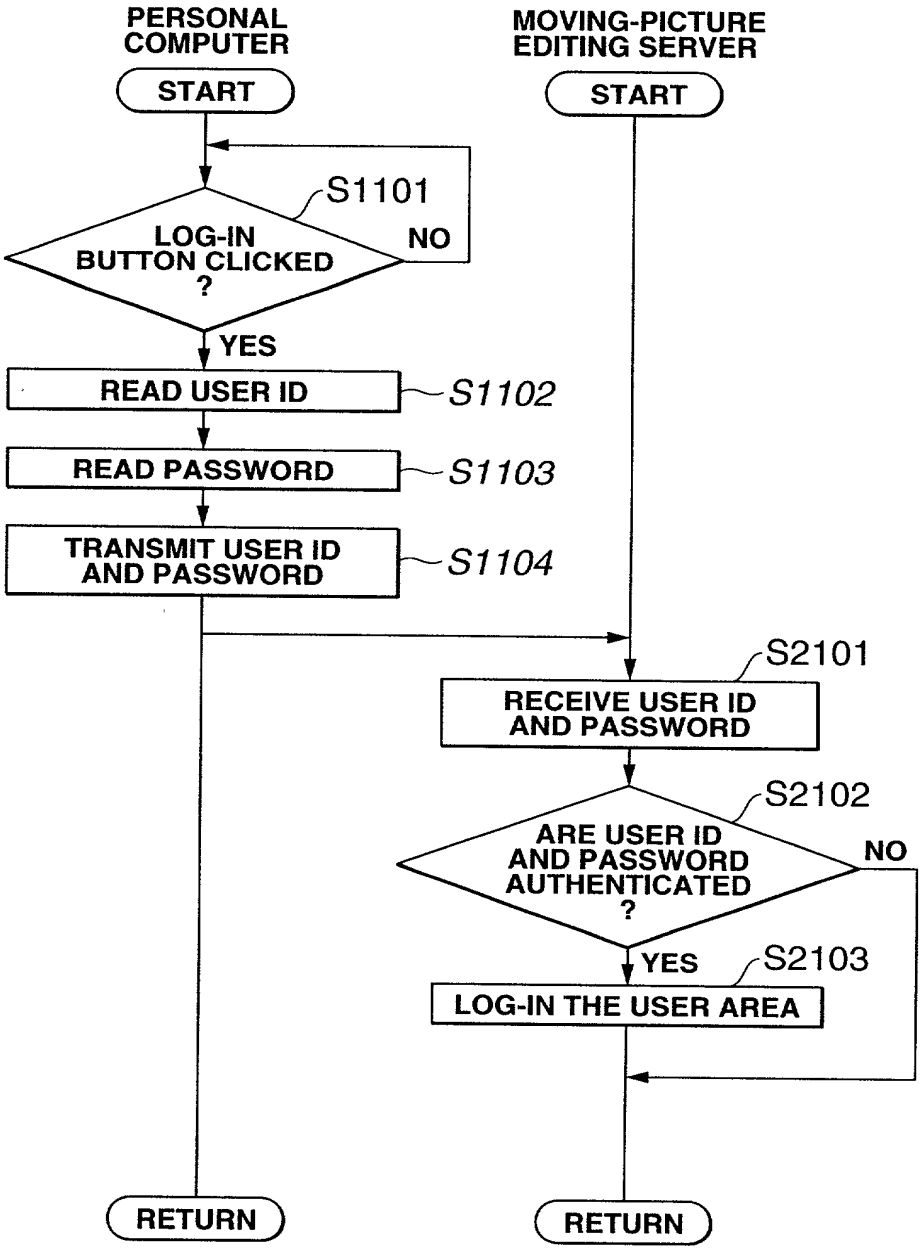
PERSONAL COMPUTER
MOVING-PICTURE EDITING SERVER
START
START
S1101
LOG-IN BUTTON CLICKED ?
NO
YES
READ USER ID
S1102
READ PASSWORD
S1103
TRANSMIT USER ID AND PASSWORD
S1104
S2101
RECEIVE USER ID AND PASSWORD
S2102
ARE USER ID AND PASSWORD AUTHENTICATED ?
NO
YES
S2103
LOG-IN THE USER AREA
RETURN
RETURN

FIG.33

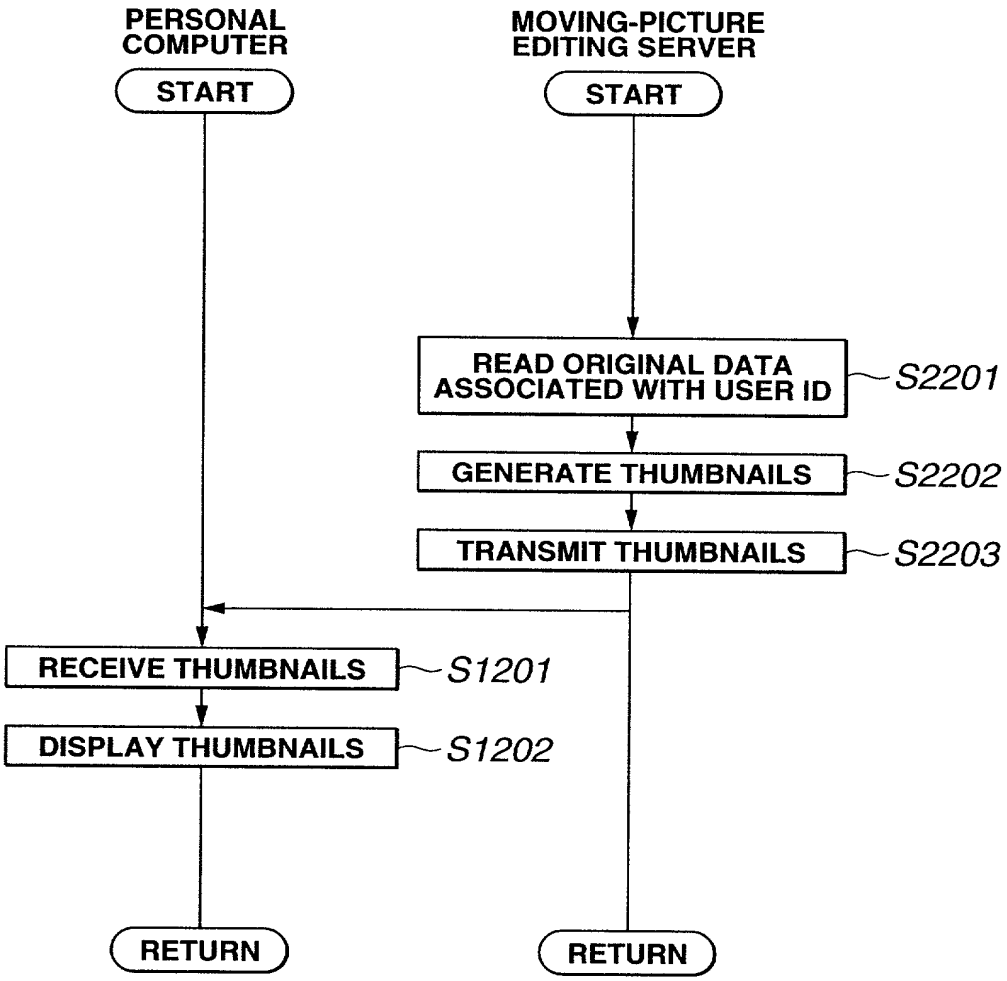
PERSONAL COMPUTER
START
MOVING-PICTURE EDITING SERVER
START
READ ORIGINAL DATA ASSOCIATED WITH USER ID
S2201
GENERATE THUMBNAILS
S2202
TRANSMIT THUMBNAILS
S2203
RECEIVE THUMBNAILS
S1201
DISPLAY THUMBNAILS
S1202
RETURN
RETURN

FIG.34

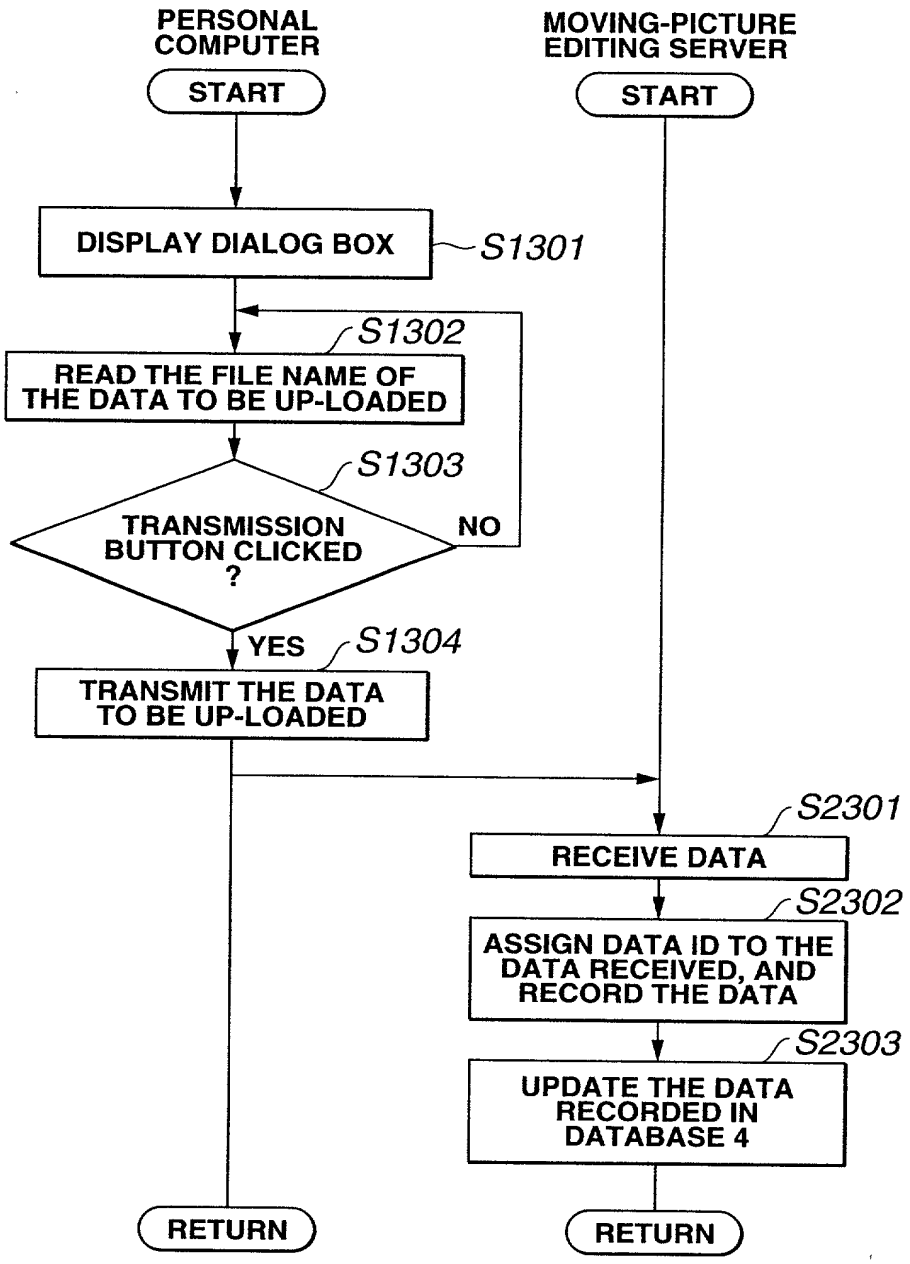
PERSONAL COMPUTER
START
DISPLAY DIALOG BOX
S1301
S1302
READ THE FILE NAME OF THE DATA TO BE UP-LOADED
S1303
TRANSMISSION BUTTON CLICKED ?
NO
YES
S1304
TRANSMIT THE DATA TO BE UP-LOADED
RETURN
MOVING-PICTURE EDITING SERVER
START
S2301
RECEIVE DATA
S2302
ASSIGN DATA ID TO THE DATA RECEIVED, AND RECORD THE DATA
S2303
UPDATE THE DATA RECORDED IN DATABASE 4
RETURN

FIG.35

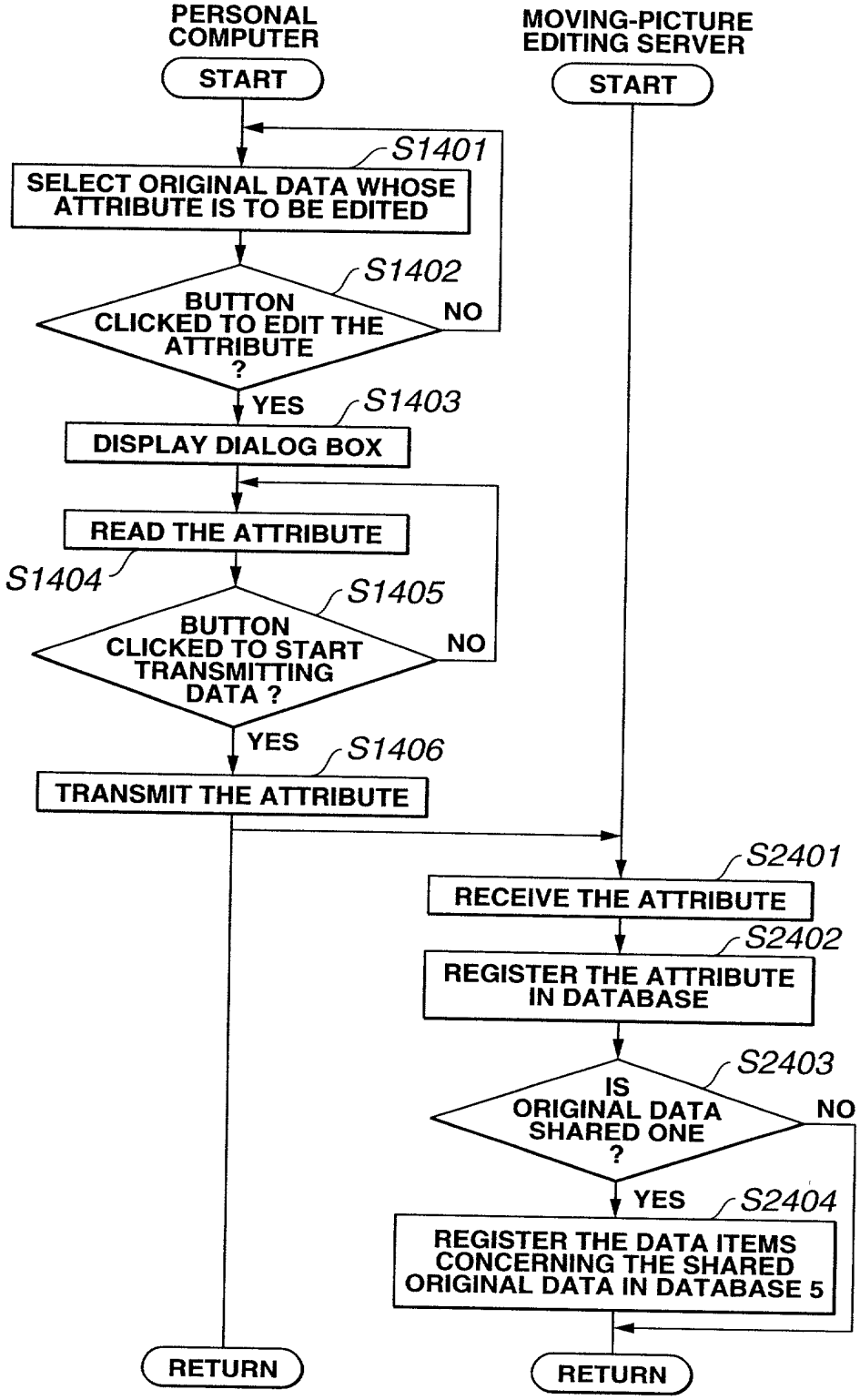
PERSONAL COMPUTER
START
S1401
SELECT ORIGINAL DATA WHOSE ATTRIBUTE IS TO BE EDITED
S1402
BUTTON CLICKED TO EDIT THE ATTRIBUTE ?
NO
YES
S1403
DISPLAY DIALOG BOX
READ THE ATTRIBUTE
S1404
S1405
BUTTON CLICKED TO START TRANSMITTING DATA ?
NO
YES
S1406
TRANSMIT THE ATTRIBUTE
RETURN
MOVING-PICTURE EDITING SERVER
START
S2401
RECEIVE THE ATTRIBUTE
S2402
REGISTER THE ATTRIBUTE IN DATABASE
S2403
IS ORIGINAL DATA SHARED ONE ?
NO
YES
S2404
REGISTER THE DATA ITEMS CONCERNING THE SHARED ORIGINAL DATA IN DATABASE 5
RETURN

FIG.36

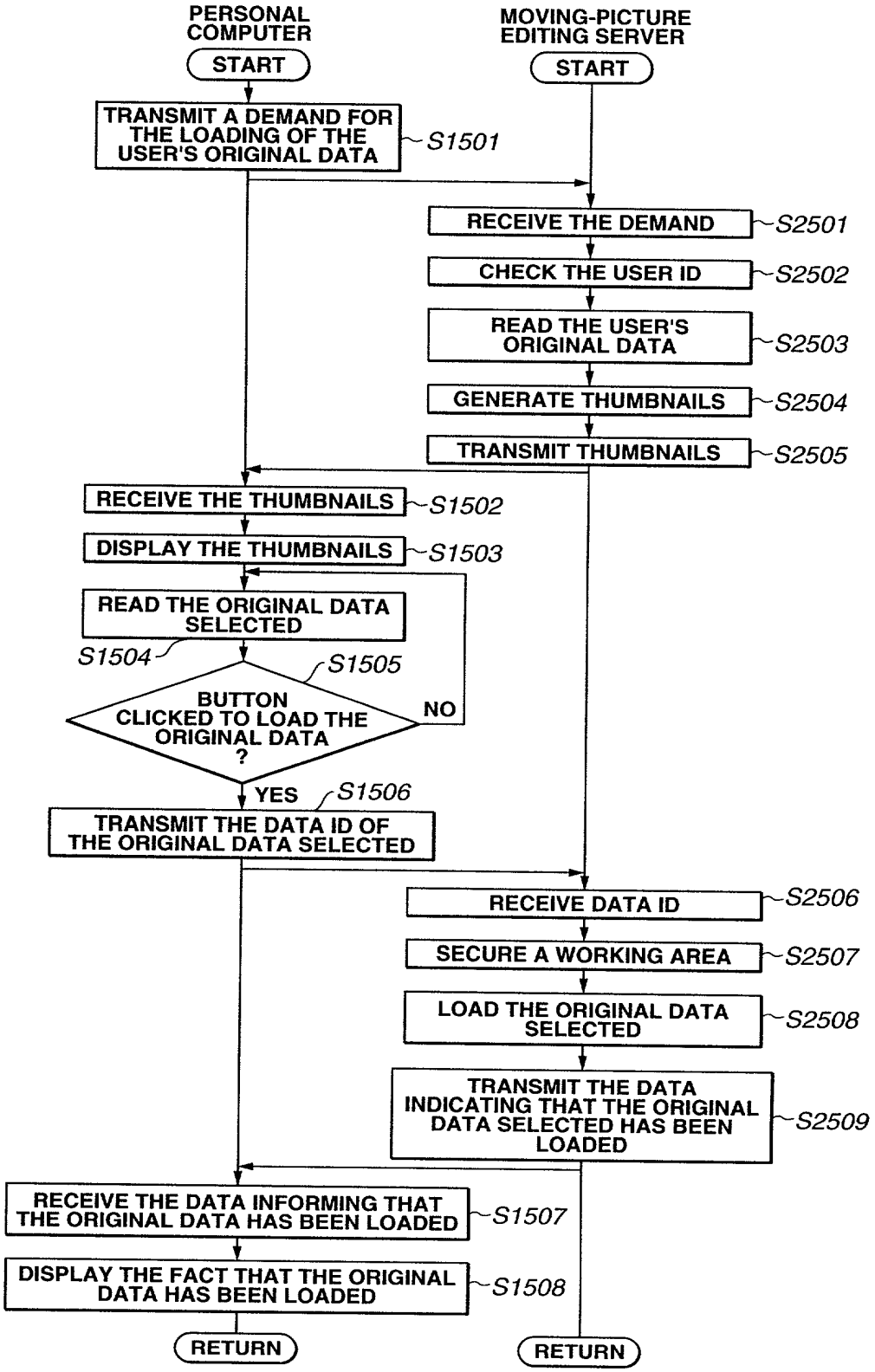
PERSONAL COMPUTER
MOVING-PICTURE EDITING SERVER
START
START
TRANSMIT A DEMAND FOR THE LOADING OF THE USER'S ORIGINAL DATA
S1501
RECEIVE THE DEMAND
S2501
CHECK THE USER ID
S2502
READ THE USER'S ORIGINAL DATA
S2503
GENERATE THUMBNAILS
S2504
TRANSMIT THUMBNAILS
S2505
RECEIVE THE THUMBNAILS
S1502
DISPLAY THE THUMBNAILS
S1503
READ THE ORIGINAL DATA SELECTED
S1504
S1505
BUTTON CLICKED TO LOAD THE ORIGINAL DATA ?
NO
YES
S1506
TRANSMIT THE DATA ID OF THE ORIGINAL DATA SELECTED
RECEIVE DATA ID
S2506
SECURE A WORKING AREA
S2507
LOAD THE ORIGINAL DATA SELECTED
S2508
TRANSMIT THE DATA INDICATING THAT THE ORIGINAL DATA SELECTED HAS BEEN LOADED
S2509
RECEIVE THE DATA INFORMING THAT THE ORIGINAL DATA HAS BEEN LOADED
S1507
DISPLAY THE FACT THAT THE ORIGINAL DATA HAS BEEN LOADED
S1508
RETURN
RETURN

FIG.37

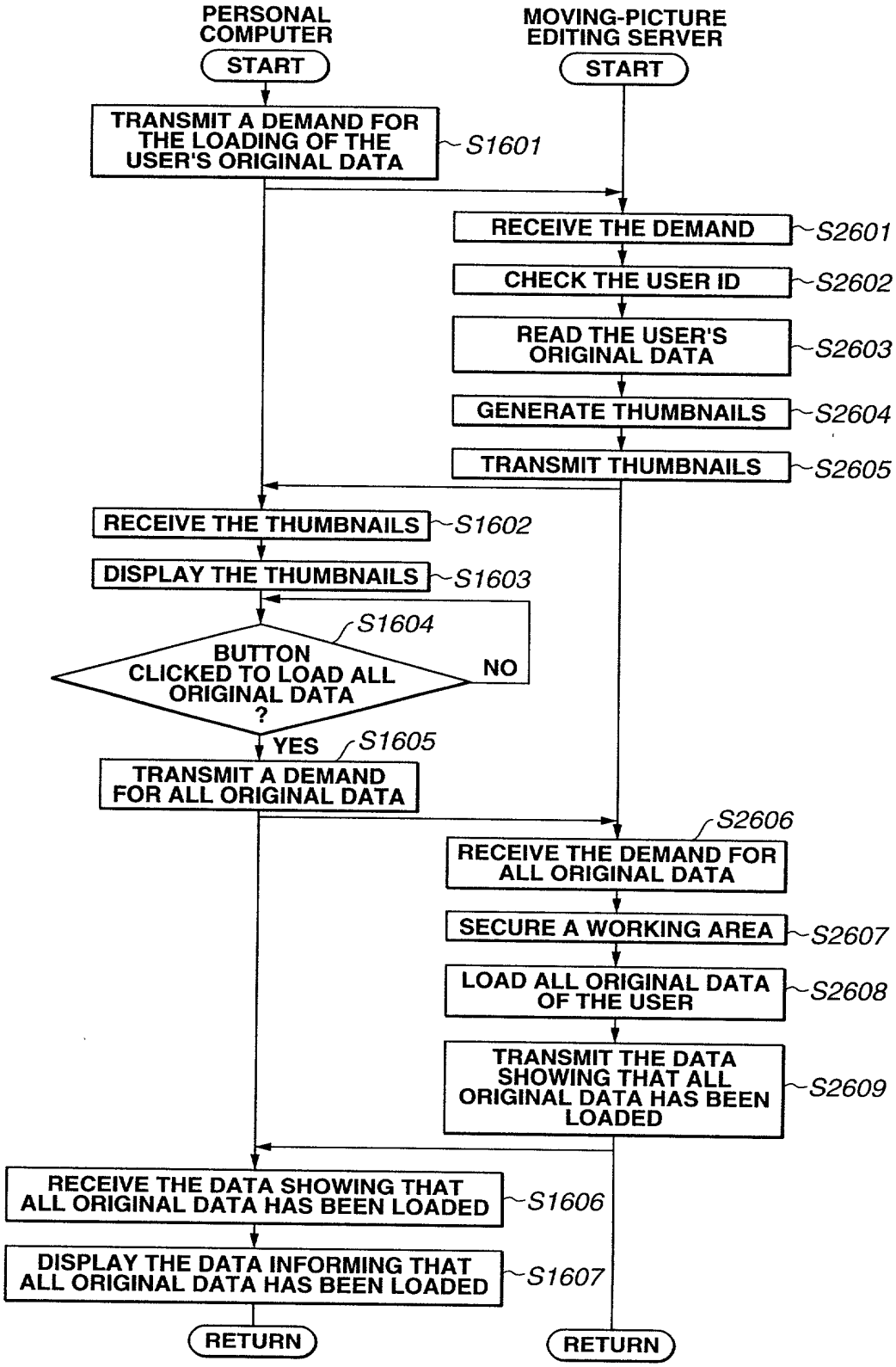
PERSONAL COMPUTER
START
TRANSMIT A DEMAND FOR THE LOADING OF THE USER'S ORIGINAL DATA
S1601
MOVING-PICTURE EDITING SERVER
START
RECEIVE THE DEMAND
S2601
CHECK THE USER ID
S2602
READ THE USER'S ORIGINAL DATA
S2603
GENERATE THUMBNAILS
S2604
TRANSMIT THUMBNAILS
S2605
RECEIVE THE THUMBNAILS
S1602
DISPLAY THE THUMBNAILS
S1603
S1604
BUTTON CLICKED TO LOAD ALL ORIGINAL DATA ?
NO
YES
S1605
TRANSMIT A DEMAND FOR ALL ORIGINAL DATA
S2606
RECEIVE THE DEMAND FOR ALL ORIGINAL DATA
SECURE A WORKING AREA
S2607
LOAD ALL ORIGINAL DATA OF THE USER
S2608
TRANSMIT THE DATA SHOWING THAT ALL ORIGINAL DATA HAS BEEN LOADED
S2609
RECEIVE THE DATA SHOWING THAT ALL ORIGINAL DATA HAS BEEN LOADED
S1606
DISPLAY THE DATA INFORMING THAT ALL ORIGINAL DATA HAS BEEN LOADED
S1607
RETURN
RETURN

FIG.38

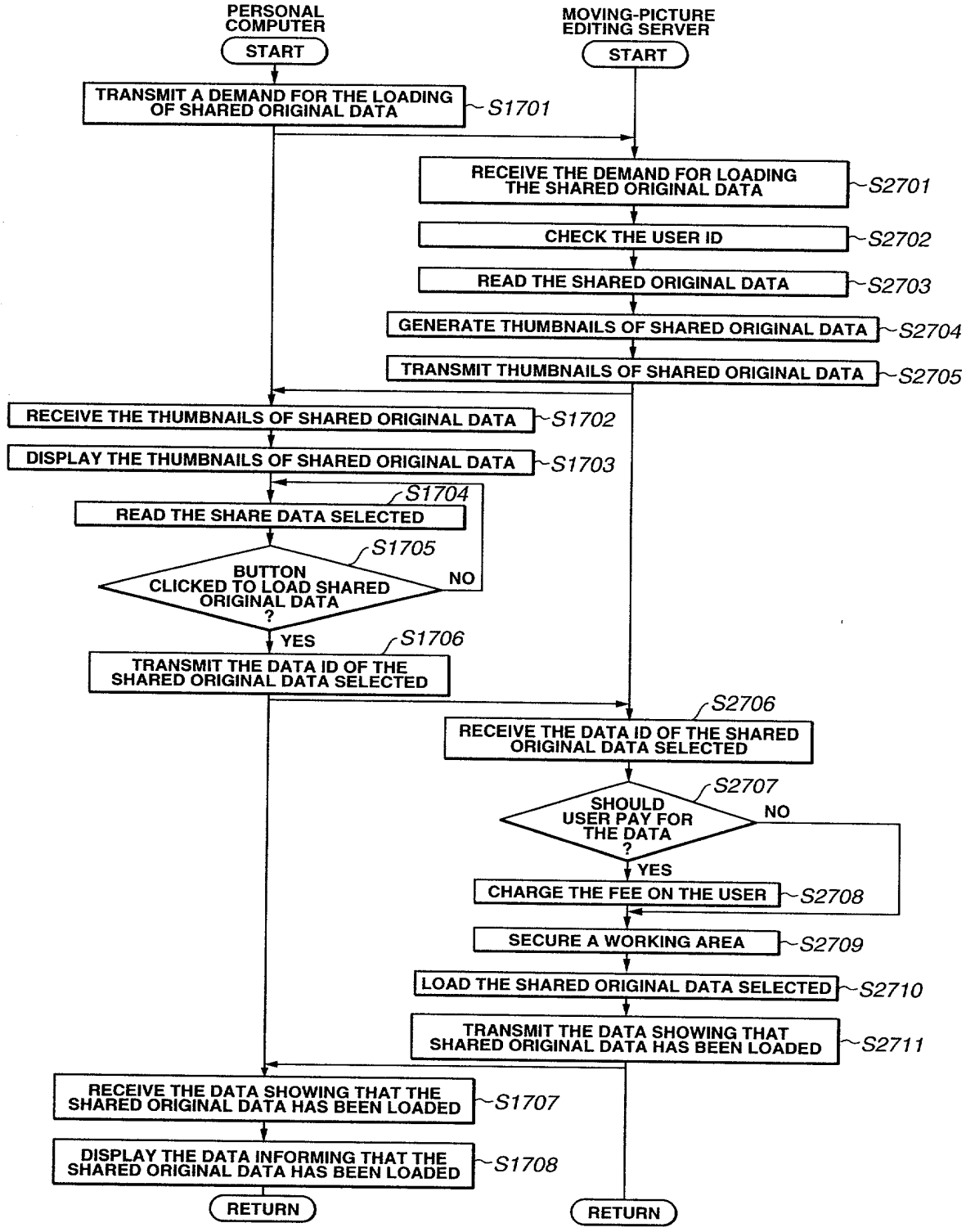
PERSONAL COMPUTER
START
TRANSMIT A DEMAND FOR THE LOADING OF SHARED ORIGINAL DATA
S1701
MOVING-PICTURE EDITING SERVER
START
RECEIVE THE DEMAND FOR LOADING THE SHARED ORIGINAL DATA
S2701
CHECK THE USER ID
S2702
READ THE SHARED ORIGINAL DATA
S2703
GENERATE THUMBNAILS OF SHARED ORIGINAL DATA
S2704
TRANSMIT THUMBNAILS OF SHARED ORIGINAL DATA
S2705
RECEIVE THE THUMBNAILS OF SHARED ORIGINAL DATA
S1702
DISPLAY THE THUMBNAILS OF SHARED ORIGINAL DATA
S1703
S1704
READ THE SHARE DATA SELECTED
S1705
BUTTON CLICKED TO LOAD SHARED ORIGINAL DATA ?
NO
YES
S1706
TRANSMIT THE DATA ID OF THE SHARED ORIGINAL DATA SELECTED
S2706
RECEIVE THE DATA ID OF THE SHARED ORIGINAL DATA SELECTED
S2707
SHOULD USER PAY FOR THE DATA ?
NO
YES
CHARGE THE FEE ON THE USER
S2708
SECURE A WORKING AREA
S2709
LOAD THE SHARED ORIGINAL DATA SELECTED
S2710
TRANSMIT THE DATA SHOWING THAT SHARED ORIGINAL DATA HAS BEEN LOADED
S2711
RECEIVE THE DATA SHOWING THAT THE SHARED ORIGINAL DATA HAS BEEN LOADED
S1707
DISPLAY THE DATA INFORMING THAT THE SHARED ORIGINAL DATA HAS BEEN LOADED
S1708
RETURN
RETURN

FIG.39

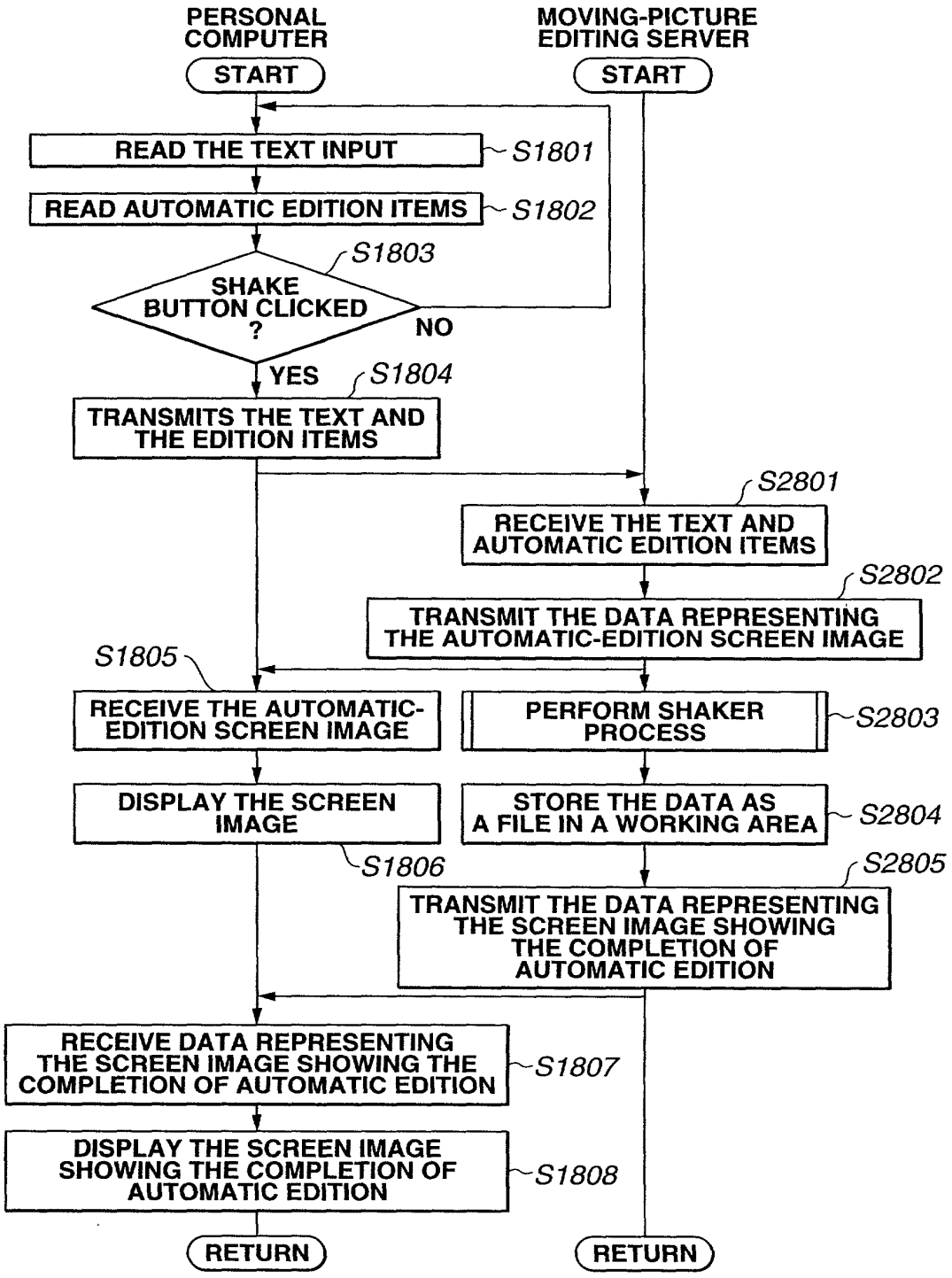
PERSONAL COMPUTER
MOVING-PICTURE EDITING SERVER
START
START
READ THE TEXT INPUT
S1801
READ AUTOMATIC EDITION ITEMS
S1802
S1803
SHAKE BUTTON CLICKED ?
NO
YES
S1804
TRANSMITS THE TEXT AND THE EDITION ITEMS
S2801
RECEIVE THE TEXT AND AUTOMATIC EDITION ITEMS
S2802
TRANSMIT THE DATA REPRESENTING THE AUTOMATIC-EDITION SCREEN IMAGE
S1805
RECEIVE THE AUTOMATIC-EDITION SCREEN IMAGE
PERFORM SHAKER PROCESS
S2803
DISPLAY THE SCREEN IMAGE
STORE THE DATA AS A FILE IN A WORKING AREA
S2804
S1806
S2805
TRANSMIT THE DATA REPRESENTING THE SCREEN IMAGE SHOWING THE COMPLETION OF AUTOMATIC EDITION
RECEIVE DATA REPRESENTING THE SCREEN IMAGE SHOWING THE COMPLETION OF AUTOMATIC EDITION
S1807
DISPLAY THE SCREEN IMAGE SHOWING THE COMPLETION OF AUTOMATIC EDITION
S1808
RETURN
RETURN

FIG.40

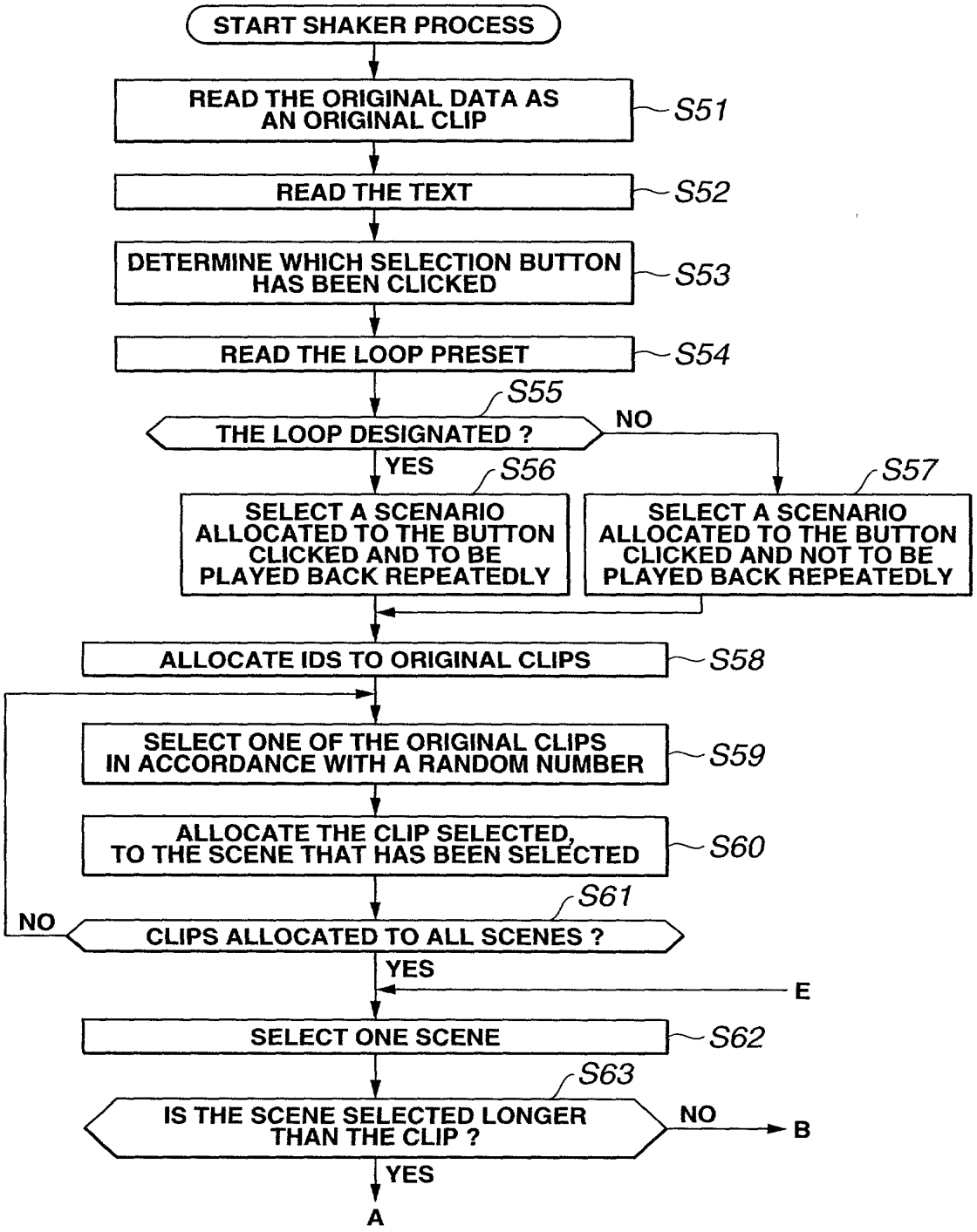
START SHAKER PROCESS
READ THE ORIGINAL DATA AS AN ORIGINAL CLIP
S51
READ THE TEXT
S52
DETERMINE WHICH SELECTION BUTTON HAS BEEN CLICKED
S53
READ THE LOOP PRESET
S54
S55
THE LOOP DESIGNATED ?
NO
YES
S56
SELECT A SCENARIO ALLOCATED TO THE BUTTON CLICKED AND TO BE PLAYED BACK REPEATEDLY
S57
SELECT A SCENARIO ALLOCATED TO THE BUTTON CLICKED AND NOT TO BE PLAYED BACK REPEATEDLY
ALLOCATE IDS TO ORIGINAL CLIPS
S58
SELECT ONE OF THE ORIGINAL CLIPS IN ACCORDANCE WITH A RANDOM NUMBER
S59
ALLOCATE THE CLIP SELECTED, TO THE SCENE THAT HAS BEEN SELECTED
S60
S61
NO
CLIPS ALLOCATED TO ALL SCENES ?
YES
E
SELECT ONE SCENE
S62
S63
IS THE SCENE SELECTED LONGER THAN THE CLIP ?
NO
B
YES
A

FIG.41

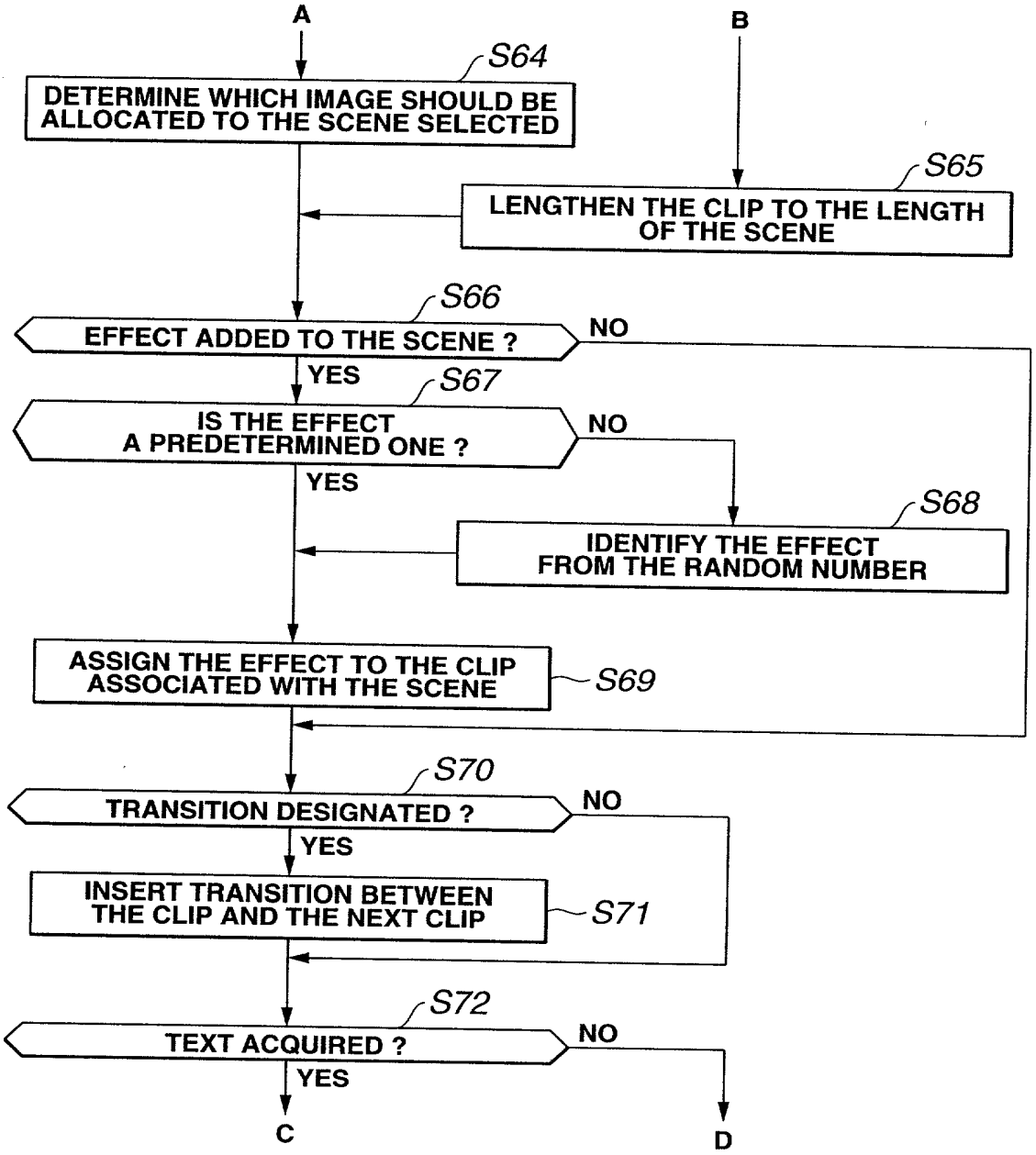
A
B
S64
DETERMINE WHICH IMAGE SHOULD BE ALLOCATED TO THE SCENE SELECTED
S65
LENGTHEN THE CLIP TO THE LENGTH OF THE SCENE
S66
EFFECT ADDED TO THE SCENE ?
NO
YES
S67
IS THE EFFECT A PREDETERMINED ONE ?
NO
YES
S68
IDENTIFY THE EFFECT FROM THE RANDOM NUMBER
ASSIGN THE EFFECT TO THE CLIP ASSOCIATED WITH THE SCENE
S69
S70
TRANSITION DESIGNATED ?
NO
YES
INSERT TRANSITION BETWEEN THE CLIP AND THE NEXT CLIP
S71
S72
TEXT ACQUIRED ?
NO
YES
C
D

FIG.42

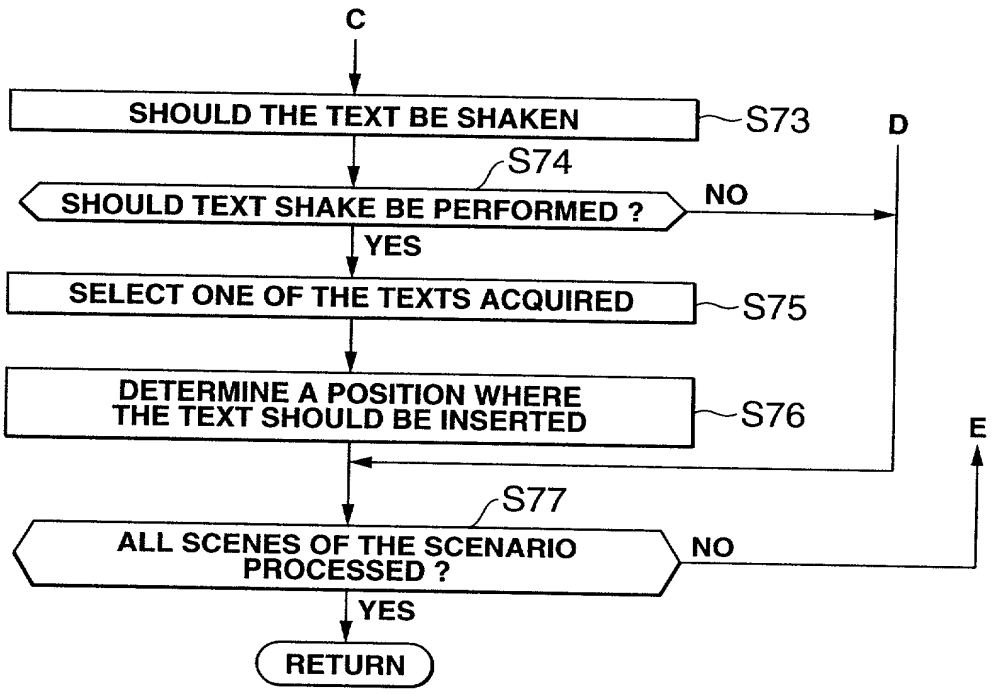
C
SHOULD THE TEXT BE SHAKEN
S73
D
S74
SHOULD TEXT SHAKE BE PERFORMED ?
NO
YES
SELECT ONE OF THE TEXTS ACQUIRED
S75
DETERMINE A POSITION WHERE THE TEXT SHOULD BE INSERTED
S76
E
S77
ALL SCENES OF THE SCENARIO PROCESSED ?
NO
YES
RETURN

FIG.43

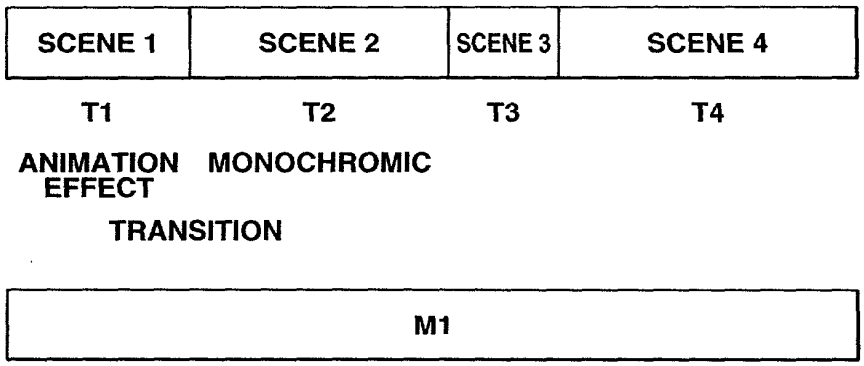

FIG.44A

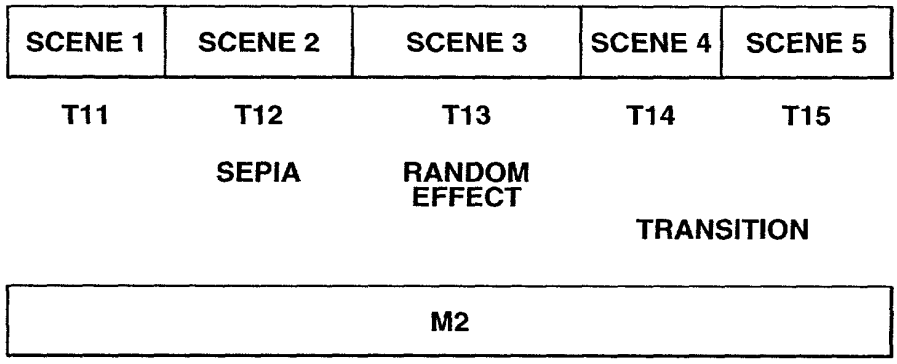

FIG.44B

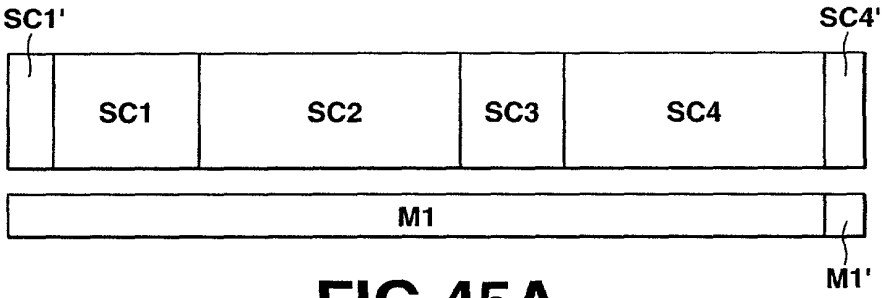

FIG.45A

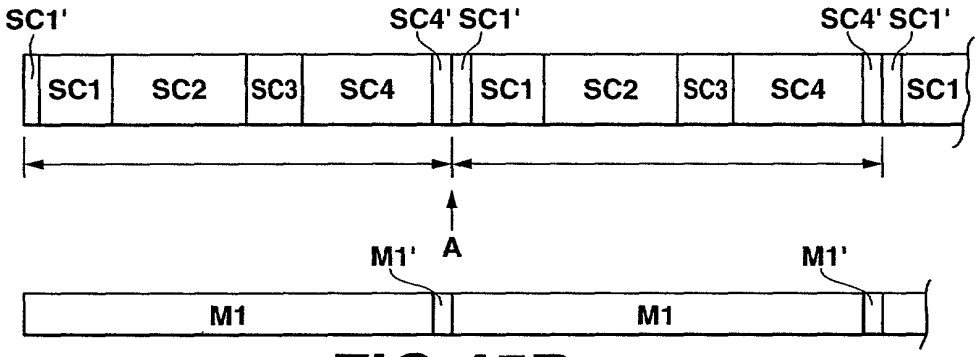

FIG.45B

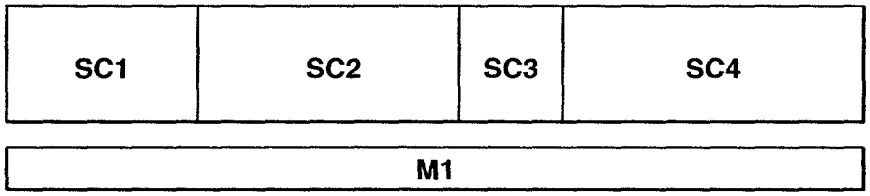

FIG.45C

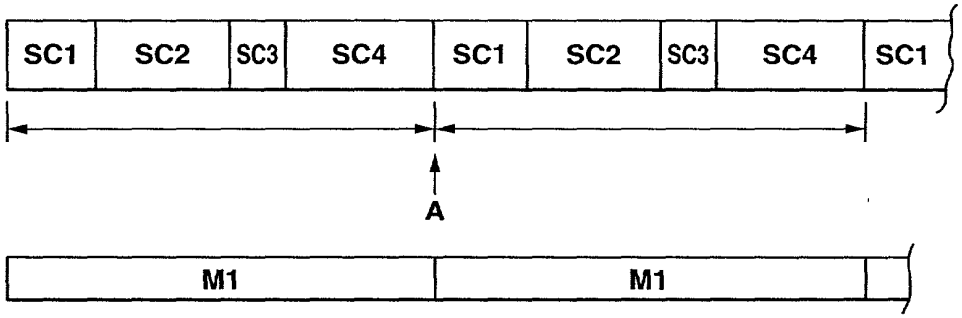

FIG.45D

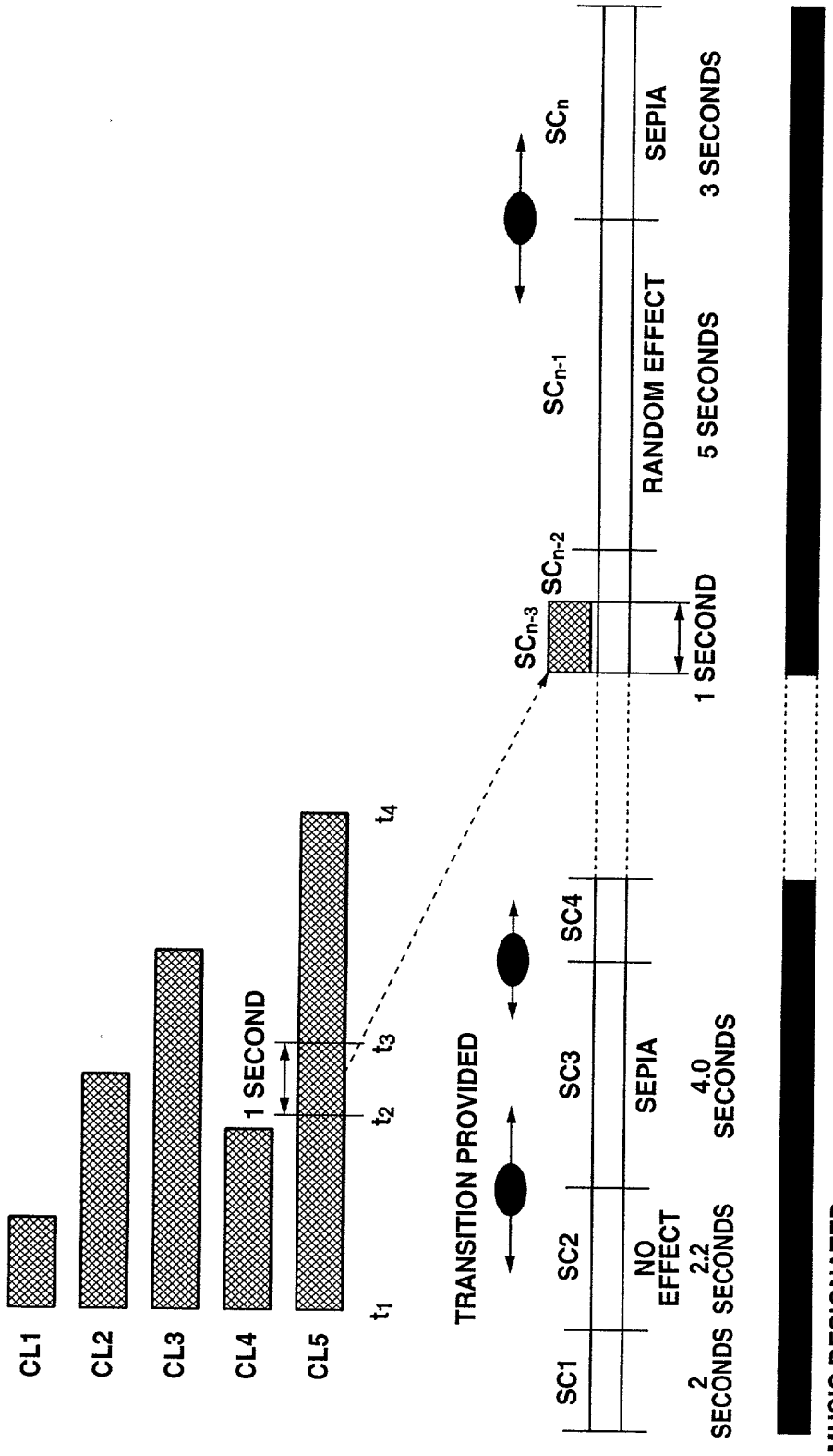
CL1
CL2
CL3
CL4
CL5
1 SECOND
t1
t2
t3
t4
TRANSITION PROVIDED
SC1
SC2
SC3
SC4
SCn-3
SCn-2
SCn-1
SCn
2 SECONDS
NO EFFECT
2.2 SECONDS
SEPIA
4.0 SECONDS
1 SECOND
RANDOM EFFECT
5 SECONDS
SEPIA
3 SECONDS
MUSIC DESIGNATED

FIG.46

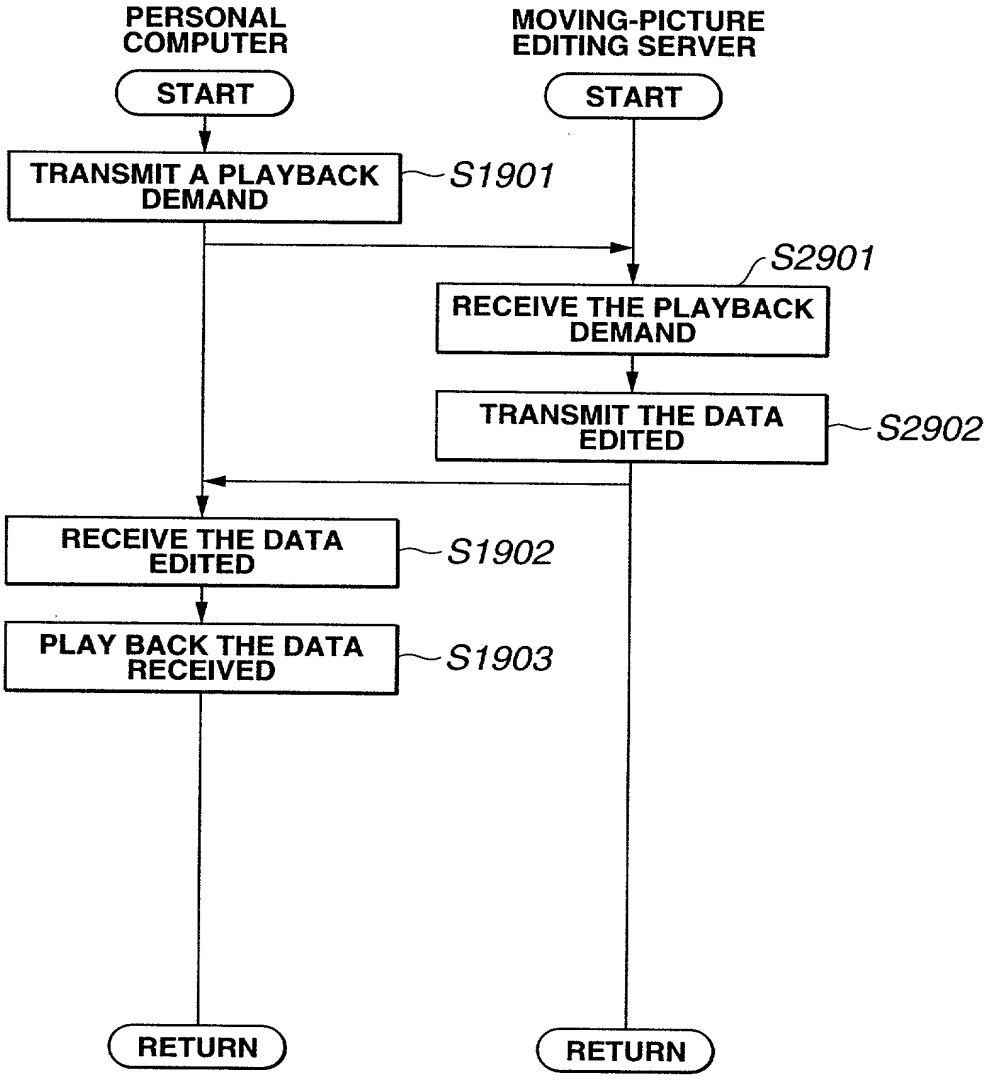
PERSONAL COMPUTER
MOVING-PICTURE EDITING SERVER
START
START
TRANSMIT A PLAYBACK DEMAND
S1901
S2901
RECEIVE THE PLAYBACK DEMAND
TRANSMIT THE DATA EDITED
S2902
RECEIVE THE DATA EDITED
S1902
PLAY BACK THE DATA RECEIVED
S1903
RETURN
RETURN

FIG.47

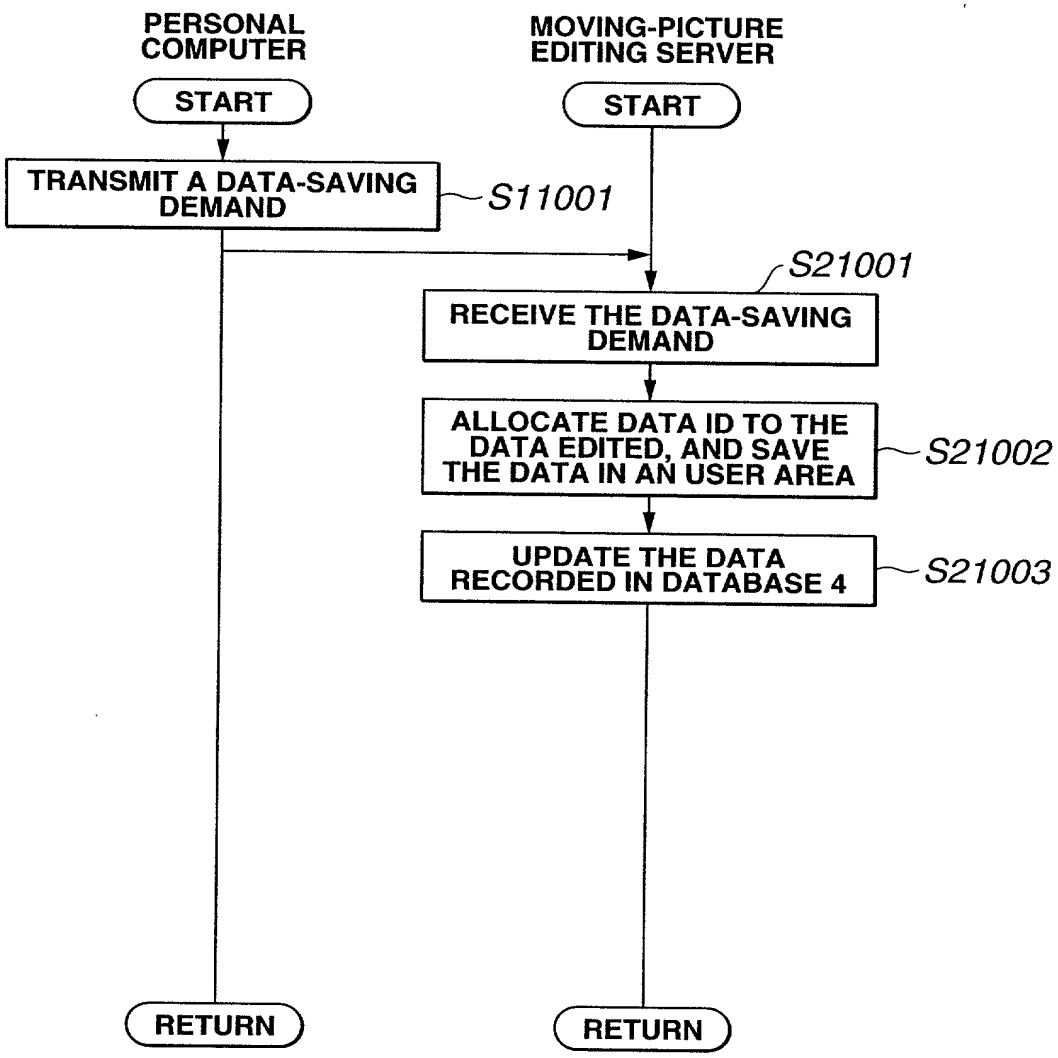
PERSONAL COMPUTER
MOVING-PICTURE EDITING SERVER
START
START
TRANSMIT A DATA-SAVING DEMAND
S11001
S21001
RECEIVE THE DATA-SAVING DEMAND
ALLOCATE DATA ID TO THE DATA EDITED, AND SAVE THE DATA IN AN USER AREA
S21002
UPDATE THE DATA RECORDED IN DATABASE 4
S21003
RETURN
RETURN

FIG.48